

Onan

**Parts
Manual
4.0BFA
GenSet**



Onan Service Parts

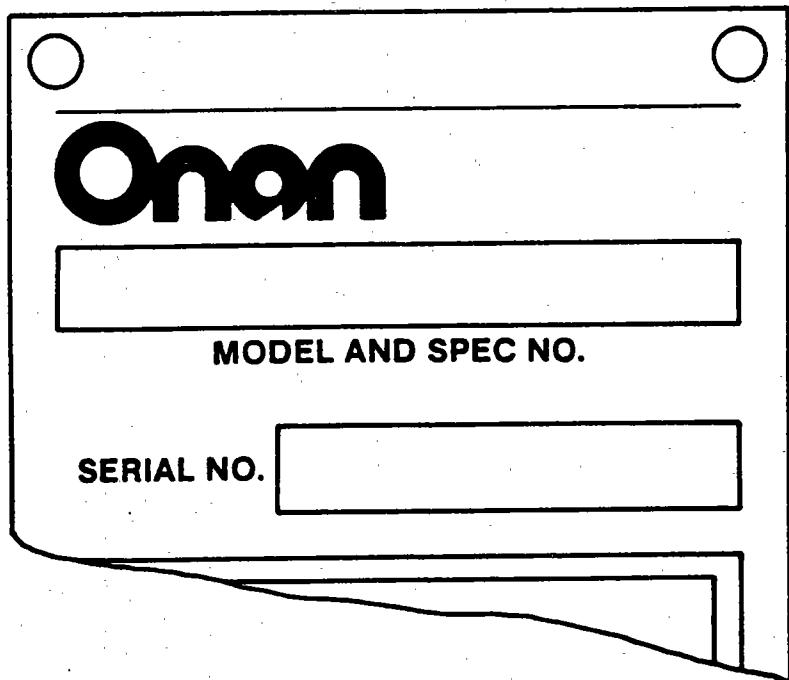
UTILITY VEHICLE

965-0262
1-88 (SPEC C,D)
Replaces
12-84 (SPEC C)
Printed in U.S.A.

General Information

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Nearest Authorized Onan Parts and Service Center.

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Onan nameplate.



M-1149

For handy reference, insert "YOUR" nameplate information in the spaces above.

Important Safety Precautions

Read and observe these safety precautions when using or working on electric generators, engines and related equipment. Also read and follow the literature provided with the equipment.

Proper operation and maintenance are critical to performance and safety. Electricity, fuel, exhaust, moving parts and batteries present hazards that can cause severe personal injury or death.

FUEL, ENGINE OIL, AND FUMES ARE FLAMMABLE AND TOXIC

Fire, explosion, and personal injury can result from improper practices.

- Used engine oil, and benzene and lead, found in some gasoline, have been identified by government agencies as causing cancer or reproductive toxicity. When checking, draining or adding fuel or oil, do not ingest, breathe the fumes, or contact gasoline or used oil.
- Do not fill tanks with engine running. Do not smoke around the area. Wipe up oil or fuel spills. Do not leave rags in engine compartment or on equipment. Keep this and surrounding area clean.
- Inspect fuel system before each operation and periodically while running.
- Equip fuel supply with a positive fuel shutoff.
- Do not store or transport equipment with fuel in tank.
- Keep an ABC-rated fire extinguisher available near equipment and adjacent areas for use on all types of fires except alcohol.
- Unless provided with equipment or noted otherwise in installation manual, fuel lines must be copper or steel, secured, free of leaks and separated or shielded from electrical wiring.
- Use approved, non-conductive flexible fuel hose for fuel connections. Do not use copper tubing as a flexible connection. It will work-harden and break.

EXHAUST GAS IS DEADLY

- Engine exhaust contains carbon monoxide (CO), an odorless, invisible, poisonous gas. Learn the symptoms of CO poisoning.
- Never sleep in a vessel, vehicle, or room with a genset or engine running unless the area is equipped with an operating CO detector with an audible alarm.
- Each time the engine or genset is started, or at least every day, thoroughly inspect the exhaust system. Shut down the unit and repair leaks immediately.

- Warning: Engine exhaust is known to the State of California to cause cancer, birth defects and other reproductive harm.

Make sure exhaust is properly ventilated.

- Vessel bilge must have an operating power exhaust.
- Vehicle exhaust system must extend beyond vehicle perimeter and not near windows, doors or vents.
- Do not use engine or genset cooling air to heat an area.
- Do not operate engine/genset in enclosed area without ample fresh air ventilation.
- Expel exhaust away from enclosed, sheltered, or occupied areas.
- Make sure exhaust system components are securely fastened and not warped.

MOVING PARTS CAN CAUSE SEVERE PERSONAL INJURY OR DEATH

- Do not remove any guards or covers with the equipment running.
- Keep hands, clothing, hair, and jewelry away from moving parts.
- Before performing any maintenance, disconnect battery (negative [-] cable first) to prevent accidental starting.
- Make sure fasteners and joints are secure. Tighten supports and clamps, keep guards in position over fans, drive belts, etc.
- If adjustments must be made while equipment is running, use extreme caution around hot manifolds and moving parts, etc. Wear safety glasses and protective clothing.

BATTERY GAS IS EXPLOSIVE

- Wear safety glasses and do not smoke while servicing batteries.
- Always disconnect battery negative (-) lead first and reconnect it last. Make sure you connect battery correctly. A direct short across battery terminals can cause an explosion. Do not smoke while servicing batteries. Hydrogen gas given off during charging is explosive.
- Do not disconnect or connect battery cables if fuel vapors are present. Ventilate the area thoroughly.

DO NOT OPERATE IN FLAMMABLE AND EXPLOSIVE ENVIRONMENTS

Flammable vapor can be ignited by equipment operation or cause a diesel engine to overspeed and become difficult to stop, resulting in possible fire, explosion, severe personal injury and death. **Do not operate diesel equipment where a flammable vapor environment can be created by fuel spill, leak, etc., unless equipped with an automatic safety device to block the air intake and stop the engine.**

HOT COOLANT CAN CAUSE SEVERE PERSONAL INJURY

- Hot coolant is under pressure. Do not loosen the coolant pressure cap while the engine is hot. Let the engine cool before opening the pressure cap.

ELECTRICAL SHOCK CAN CAUSE SEVERE PERSONAL INJURY OR DEATH

- Do not service control panel or engine with unit running. High voltages are present. Work that must be done while unit is running should be done only by qualified service personnel.
- Do not connect the generator set to the public utility or to any other electrical power system. Electrocution can occur at a remote site where line or equipment repairs are being made. An approved transfer switch must be used if more than one power source is connected.
- Disconnect starting battery (negative [-] cable first) before removing protective shields or touching electrical equipment. Use insulative mats placed on dry wood platforms. Do not wear jewelry, damp clothing or allow skin surface to be damp when handling electrical equipment.
- Use insulated tools. Do not tamper with interlocks.
- Follow all applicable state and local electrical codes. Have all electrical installations performed by a qualified licensed electrician. Tag open switches to avoid accidental closure.
- With transfer switches, keep cabinet closed and locked. Only authorized personnel should have cabinet or operational keys. Due to serious shock hazard from high voltages within cabinet, all service and adjustments must be performed by an electrician or authorized service representative.

If the cabinet must be opened for any reason:

1. Move genset operation switch or Stop/Auto/Handcrank switch (whichever applies) to Stop.
2. Disconnect genset batteries (negative [-] lead first).
3. Remove AC power to automatic transfer switch. If instructions require otherwise, use extreme caution due to shock hazard.

MEDIUM VOLTAGE GENERATOR SETS (601V TO 15kV)

- Medium voltage acts differently than low voltage. Special equipment and training are required to work on or around medium voltage equipment. Operation and maintenance must be done only by persons trained and qualified to work on such devices. Improper use or procedures will result in severe personal injury or death.
- Do not work on energized equipment. Unauthorized personnel must not be permitted near energized equipment. Induced voltage remains even after equipment is disconnected from the power source. Plan maintenance with authorized personnel so equipment can be de-energized and safely grounded.

GENERAL SAFETY PRECAUTIONS

- Do not work on equipment when mentally or physically fatigued or after consuming alcohol or drugs.
- Carefully follow all applicable local, state and federal codes.
- Never step on equipment (as when entering or leaving the engine compartment). It can stress and break unit components, possibly resulting in dangerous operating conditions from leaking fuel, leaking exhaust fumes, etc.
- Keep equipment and area clean. Oil, grease, dirt, or stowed gear can cause fire or damage equipment by restricting airflow.
- Equipment owners and operators are solely responsible for operating equipment safely. Contact your authorized Onan/Cummins dealer or distributor for more information.

KEEP THIS DOCUMENT NEAR EQUIPMENT FOR EASY REFERENCE.

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Introduction

This Catalog applies to the BFA Utility Vehicles Generator Set. Parts are arranged in groups of related items. Each illustrated part is identified by a reference number corresponding to the same reference number in the parts list for that group. Parts illustrations are typical. Using the Model and Spec No. from the nameplate, select Parts that apply to your Model and Spec No. Unless otherwise mentioned in the description, parts are interchangeable between models. Right and left sides are determined by facing the engine end (front) of the set.

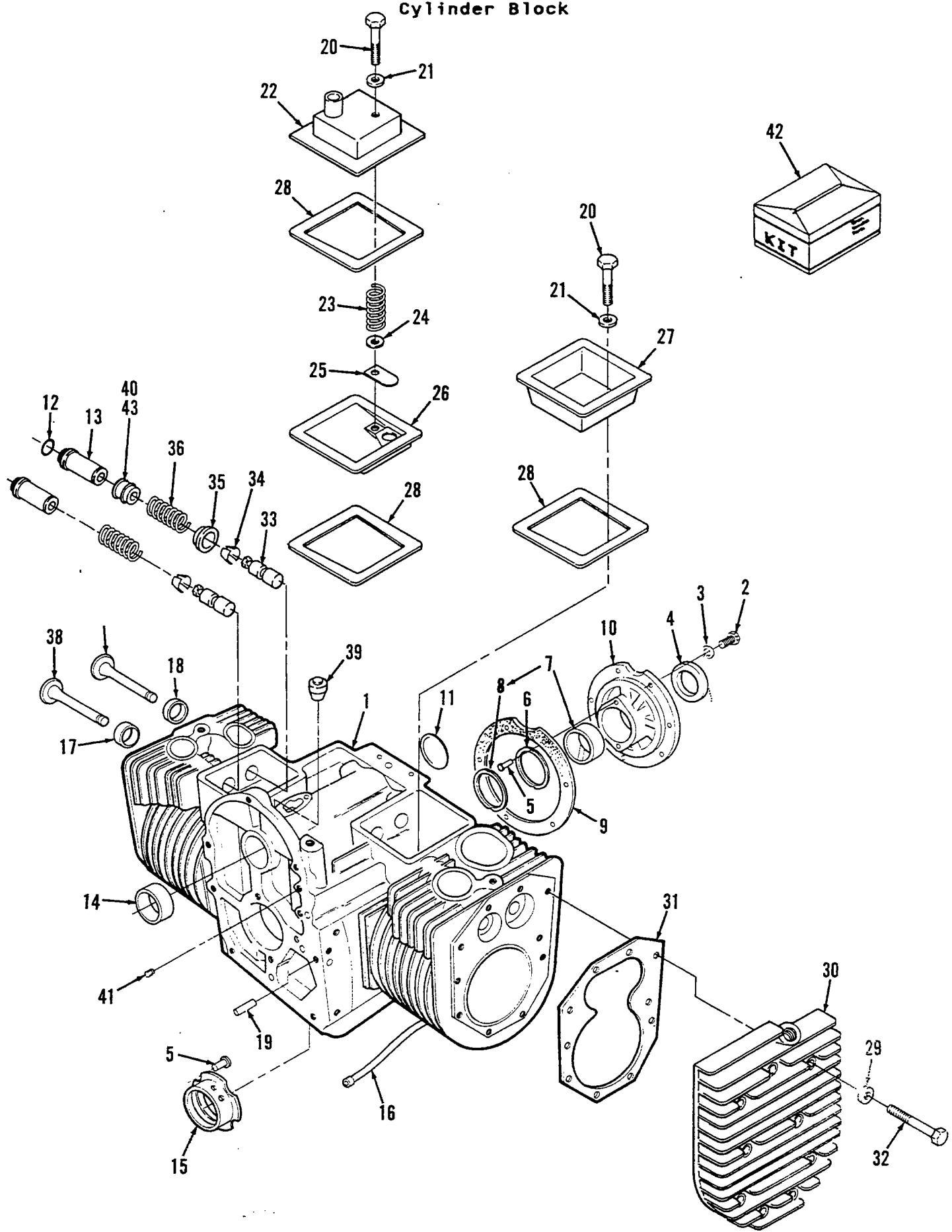
Engine Data Table

Model and Specification Number	Volts	Parts Key Number
4.0 BFA-3CR/15000C	120/240	1
4.0 BFA-1R/19486C	120	2
4.0 BFA-1R/19486D	120	3
4.0 BFA-3CR/20275C	120/240	4
4.0 BFA-5DR/22540C	120/240	5
4.0 BFA-5DR/22541C	120/240	6
4.0 BFA-3CR/25206C	120/240	7
4.0 BFA-3CR/26651C	120/240	8
4.0 BFA-3CR/26805C	120/240	9
4.0 BFA-5DR/27696C	120/240	10
4.0 BFA-5DR/27919C	120/240	11
4.0 BFA-3CR/28505C	120/240	12

606-0205
606-0200

611-1142-04

Cylinder Block

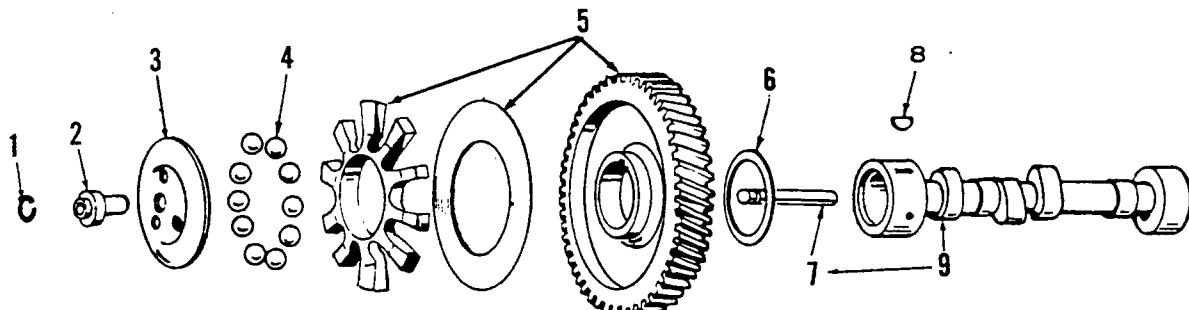


Cylinder Block

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	
1	110-3148	1	Block, Cylinder (Includes Parts Marked*)	22	110-2274	1	Cover, Valve (With Breather Port)	
2	800-0051	5	*Screw, Cap - Hex Head (3/8-16x1-1/4")	23	123-1174	1	Spring, Breather Valve	
3	850-0050	5	*Washer, Lock - Spring (3/8")	24	526-0018	1	Washer, Flat (1/4" Screw)	
4	509-0041	1	*Seal, Oil	25	123-1175	1	Reed, Breather Valve	
5	516-0072	4	*Pin, Drive - Bearing Stop	26	123-1173	1	Baffle, Breather Valve	
6	104-0776	AR	*Shim (.005")	27	110-1879	1	Cover, Valve (Without Breather Port)	
7			Bearing, Crankshaft - Rear (Includes Thrust Washer)	28	110-1921	3	Gasket, Valve Cover	
	101-0450	1	* Standard	29	526-0122	18	Washer, Flat (5/16" Screw)	
	101-0450-02	1	.002" Undersize	30			Head, Cylinder	
	101-0450-10	1	.010" Undersize		110-2562	1	Right Side	
	101-0450-20	1	.020" Undersize		110-2561	1	Left Side	
	101-0450-30	1	.030" Undersize	31			Gasket, Head	
8	104-0575	2	*Washer, Thrust		110-2287	2	All Except Key 3	
9	101-0415	1	*Gasket, Bearing Plate		110-0892	2	Key 3	
10	101-0439	1	*Plate, Bearing - Rear	32	800-0540	12	Screw, Cap - Hex Head	
11	517-0048	1	*Plug, Expansion - Welch		800-0541	6	5/16-18x1-5/8" (Grade 8)	
12	110-0068	2	*Gasket, Intake Valve Guide	33			5/16-18x2" (Grade 8)	
13			*Guide, Valve		115-0006	4	Tappet, Valve	
	110-1807	2	Exhaust		115-0006-02	4	Standard	
	110-3055	2	Intake - Sets With Valve		115-0006-05	4	.002" Oversize	
			Stem Oil Seals	34	110-0639	8	.005" Oversize	
	110-3159	2	Intake - Sets Without		35		Lock, Valve Spring	
			Valve Stem Oil Seals		110-0904	4	Retainer, Valve Spring	
14	101-0405	2	*Bearing, Camshaft				Rotator - Keys 1,2,4,5,6,8, 9,10,12	
15			Bearing, Crankshaft - Front	110-0893			Washer (Used In Place Of Rotators On Intake Valves)	
	101-0432	1	* Standard		110-0904	2	Keys 7,11	
	101-0432-02	1	.002" Undersize		110-0893	2	Rotator - Key 3	
	101-0432-10	1	.010" Undersize				Washer (Used In Place Of Rotators On Intake Valves)	
	101-0432-20	1	.020" Undersize				Key 3	
	101-0432-30	1	.030" Undersize		36	110-0539	4	Spring, Valve
16	120-0735	1	*Tube, Oil Crankcase		37		Valve, Intake	
17			Insert, Valve Seat - Exhaust				Keys 1,2,3,4,7,8,9,11,12	
	110-1824	2	* Standard		110-1808	2	Keys 5,6,10	
	110-1824-02	2	.002" Oversize		110-2368	2	Valve, Exhaust	
	110-1824-05	2	.005" Oversize				All Except Key 3	
	110-1824-10	2	.010" Oversize	38	110-1955	2	Key 3	
	110-1824-25	2	.025" Oversize		110-1809	2	Plug, Cylinder Block Opening	
18			Insert, Valve Seat - Intake		39	517-0120	1	Keys 1,2,8,9,12
	110-0197	2	* Standard		40	110-3236	2	Seal, Valve - Intake
	110-0197-02	2	.002" Oversize				(Optional)	
	110-0197-05	2	.005" Oversize	41	517-0067	1	*Plug, Welch	
	110-0197-10	2	.010" Oversize		42		Kits	
	110-0197-25	2	.025" Oversize		168-0144	1	Gasket (Carbon Removal)	
19	516-0141	2	*Pin, Gearcase Alignment		168-0143	1	Gasket (Complete Engine)	
20	800-0010	2	Screw, Cap - Hex Head	43	509-0168	2	Seal, Valve - Intake	
			(1/4-20x1-3/4")				(Optional)	
21	526-0063	2	Washer, Flat - Copper					
			(1/4" Screw)					

* - Parts Included In 110-3148 Cylinder Block.

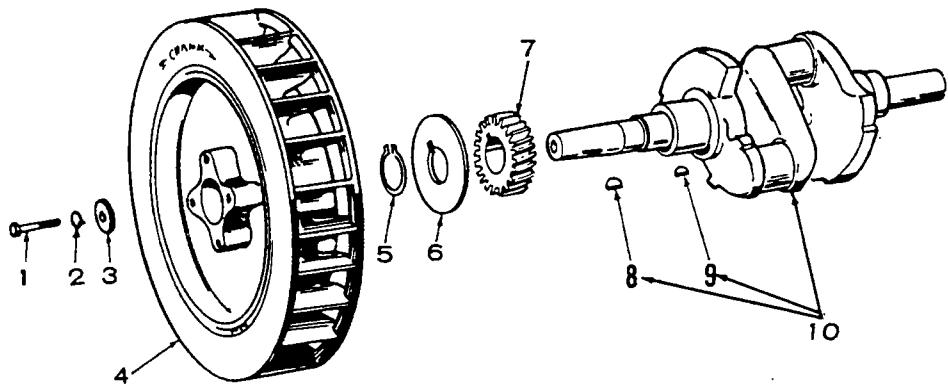
Camshaft



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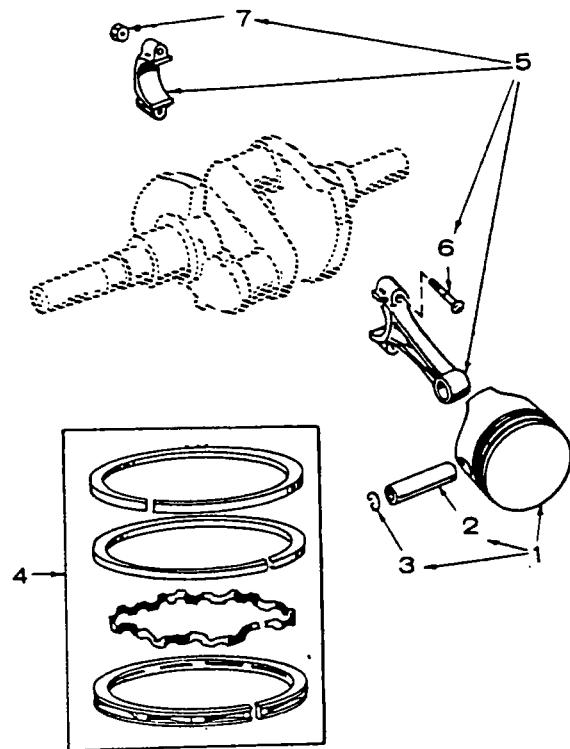
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-0078	1	Ring, Retaining	6	105-0541	1	Washer, Thrust
2	150-1519	1	Hub, Governor Cup	7	150-0075	1	Pin, Center
3	150-1520	1	Cup, Governor	8	515-0001	1	Key, Woodruff
4	510-0015	10	Ball, Governor	9	105-0637	1	Camshaft (Includes Center Pin)
5	105-0332	1	Gear, Camshaft (Includes Spacer And Plate)				

Crankshaft And Flywheel



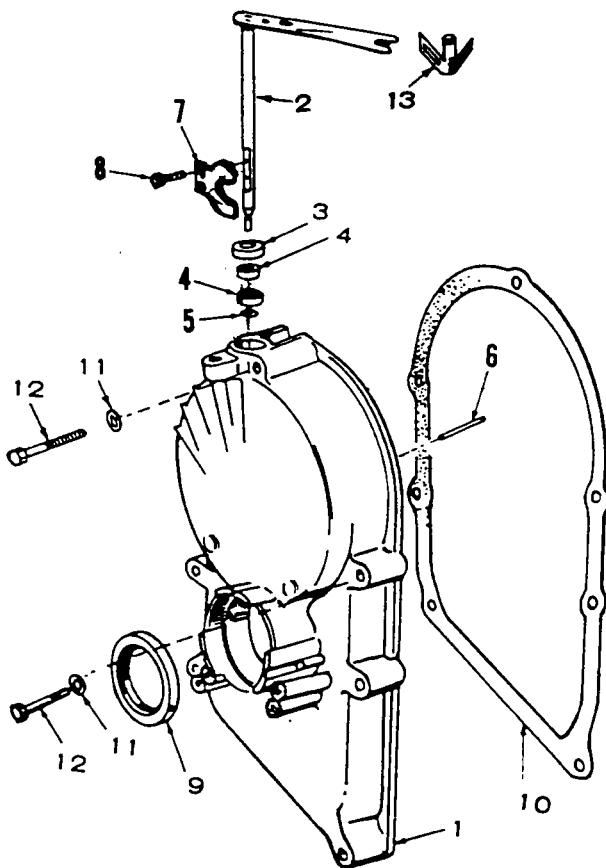
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-0170	1	Screw, Cap - Hex Head Heat Treated (Special)	6	104-0043	1	Washer, Gear
2	850-0055	1	Washer, Lock - Spring (7/16")	7	104-0032	1	Gear, Crankshaft
3	526-0017	1	Washer, Flat (7/16" Screw)	8	515-0227	1	Kit, Key - All Except Keys 1,2
4	134-3871	1	Flywheel	9	515-0001	1	Key, Woodruff - All Keys
5	518-0014	1	Ring, Retaining	10	104-1331	1	Crankshaft (Includes Keys)

Piston And Rod



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Piston (Includes Pin And Retaining Rings)	5			Rod, Connecting (Includes Bolt And Nut)
	112-0186	2	Standard		114-0300	2	Standard
	112-0186-05	2	.005" Oversize		114-0300-10	2	.010" Undersize
	112-0186-10	2	.010" Oversize		114-0300-20	2	.020" Undersize
	112-0186-20	2	.020" Oversize		114-0300-30	2	.030" Undersize
	112-0186-30	2	.030" Oversize	6	114-0240	4	Bolt, Connecting Rod (Special)
	112-0186-40	2	.040" Oversize		7	870-0302	Nut, Hex - Crown Lock (5/16-24)
2	112-0229	2	Pin, Piston				
3	518-0311	4	Ring, Retaining				
4			Ring Set, Piston				
	113-0189	2	Standard				
	113-0189-05	2	.005" Oversize				
	113-0189-10	2	.010" Oversize				
	113-0189-20	2	.020" Oversize				
	113-0189-30	2	.030" Oversize				
	113-0189-40	2	.040" Oversize				

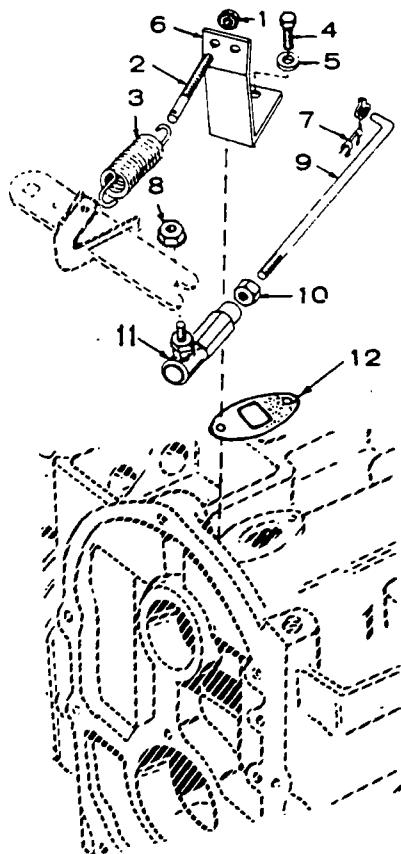
Gearcase



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	103-0667	1	Gearcase (Kit) (Includes Parts Marked*)	8	815-0046	2	*Screw, Machine - Pan Head (8-32x3/8")
2	150-1542	1	*Arm And Shaft, Governor	9	509-0040	1	*Seal, Oil - Crankshaft
3	509-0008	1	*Seal, Oil - Governor Shaft	10	103-0408	1	Gasket, Gearcase Mounting
4	510-0013	2	*Bearing, Needle	11	526-0065	5	Washer, Flat - Copper (5/16" Screw)
5	510-0014	1	*Ball, Bearing	12	800-0032	4	Screw, Cap, Hex Head 5/16-18x1-3/4"
6	516-0130	1	*Pin, Dowel - Governor Cup Stop	800-0034	1	5/16-18x2-1/4"	
7	150-1187	1	*Yoke, Governor	13	150-0678	1	*Clip, Sensitivity Adjustment

* - Parts Included In 103-0667 Gearcase.

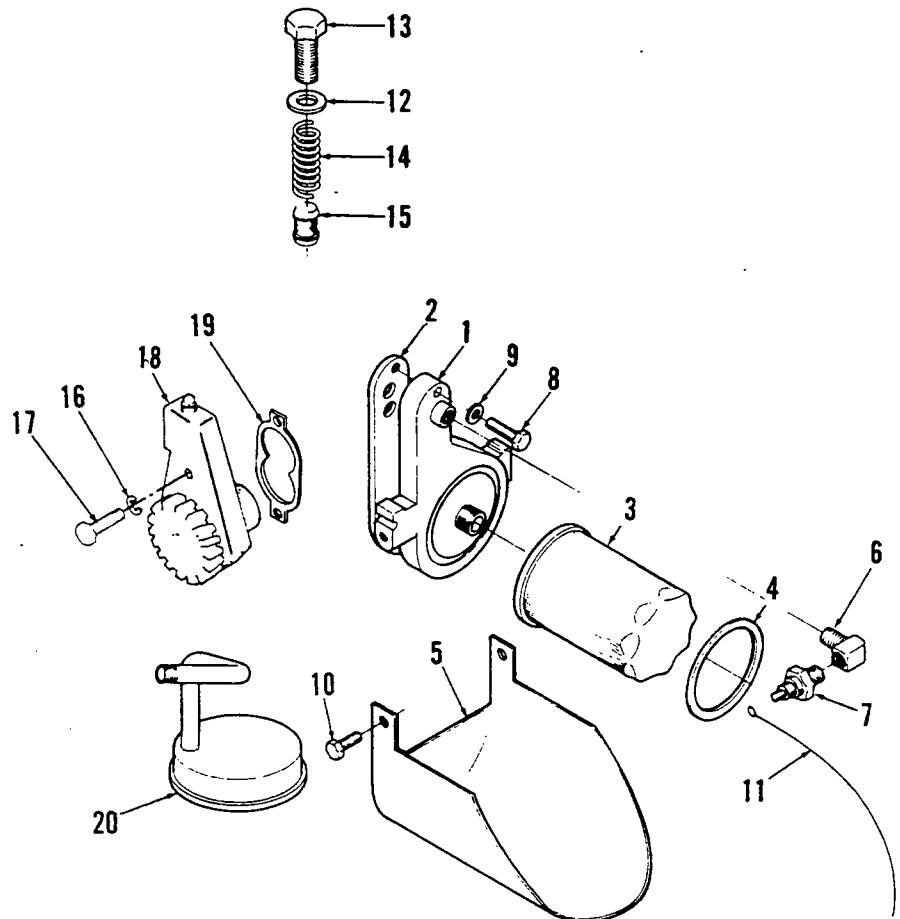
Governor



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0131	1	Nut, Hex - Self Locking (1/4-20")	8	870-0131	1	*Nut, Hex - Self Locking (1/4-20")
2	150-0096	1	Stud, Speed Adjustment	9	150-0629	1	*Rod, Governor Arm To Carburetor
3	150-1612	1	Spring, Governor	10	870-0053	1	*Nut, Hex (#10-32)
4	800-0004	2	Screw, Cap - Hex Head (1/4-20x5/8")	11	150-0639	1	*Joint, Ball
5	526-0063	2	Washer, Flat (1/4" Screw)	12	149-0003	1	Gasket, Governor Bracket
6	150-1577	1	Bracket, Governor		150-0630	1	Linkage, Governor (Includes Parts Marked*)
7	518-0004	1	Clip, Retaining				

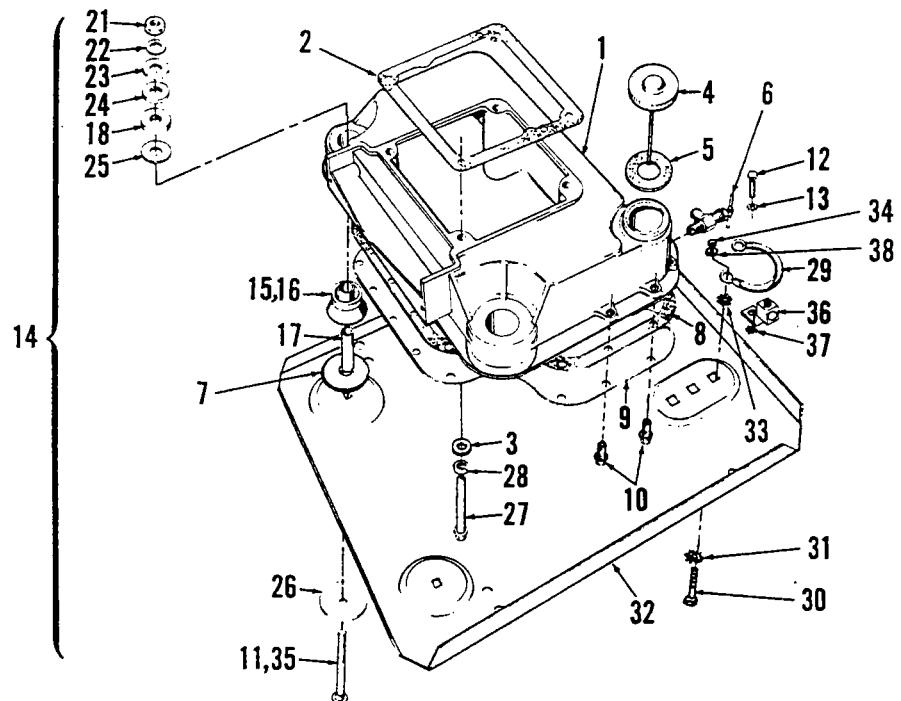
* - Parts Included In 150-0630 Governor Linkage.

Oil System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	122-0320	1	Adapter, Oil Filter	11	336-3377	1	Lead, Electrical - Low Oil Pressure Switch
2	122-0321	1	Gasket, Oil Filter Adapter Mounting	12	526-0066	1	Washer, Flat (3/8" Screw)
3	122-0645	1	Filter, Oil - Spin-On	13	801-0050	1	Screw, Cap - Hex Head (3/8-24x1")
4	122-0347	1	Seal, Air - Oil Filter	14	120-0140	1	Spring, Oil By-Pass Valve
5	122-0360	1	Drain, Oil Filter	15	120-0398	1	Valve, Oil By-Pass
6	502-0053	1	Elbow, Street - 45°	16	850-0040	2	Washer, Lock - Spring (1/4")
7	309-0319	1	Switch, Low Oil Pressure	17	800-0007	2	Screw, Cap - Hex Head (1/4-20x1")
8	800-0028	2	Screw, Cap - Hex Head (5/16-18x1")	18	120-0491	1	Pump, Oil (Components Not Sold Separately)
9	526-0065	2	Washer, Flat - Copper (5/16" Screw)	19	120-0161	1	Kit, Gasket - Oil Pump
10	815-0194	2	Screw, Tapping - Hex Head (#10-32x3/8")	20	120-0413	1	Cup, Oil Pump Intake (Includes Screw Pipe And Cup)

**Oil Base And
Mounting Hardware**



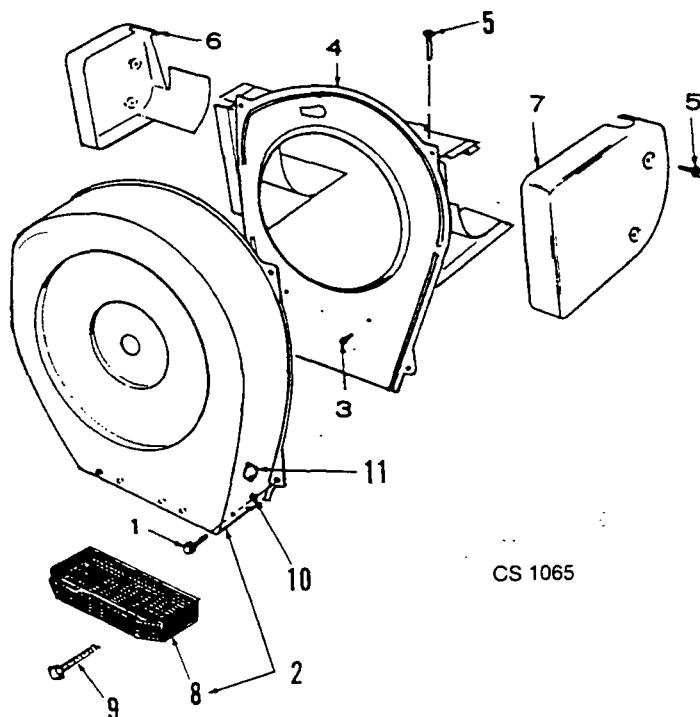
LS 1003-1

REF. NO.	PART NO.	QTY USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-0957	1	Base, Oil (Includes Parts Marked*)	22	850-0055	2	#Washer, Lock (7/16") Engine End
2	102-1200	1	Gasket, Oil Base	23	850-0055	1	Generator End(Left Side)
3	526-0030	4	Washer, Flat (3/8" Screw)	24	850-0055	1	Generator End(Right Side)
4	123-1400	1	Cap And Indicator, Oil Fill	25	526-0014	2	#Washer, Flat (7/16" Screw) Engine End
5	123-0191	1	Gasket, Oil Fill Cap	26	526-0014	1	Generator End(Left Side)
6	504-0092	1	Valve, Oil Drain	27	526-0014	1	Generator End(Right Side)
7			Washer, Flat (7/16" Screw)	28	526-0195	2	#Washer, Flat (9/16" Screw) Engine End
	526-0195	2	Generator End	29	526-0198	2	Generator End(Left Side)
	526-0195	2	*Gasket, Oil Pan Mounting	30	526-0198	2	Generator End(Right Side)
8	102-1275	1	*Pan, Oil Base	31	526-0198	1	#Washer, Flat (1" Screw) Generator End(Left Side)
9	102-0889	1		32	526-0286	1	Generator End(Right Side)
10	821-0018	20	*Screw, Cap - Hex Washer Head (1/4-20x5/8")	33	526-0286	1	#Washer, Flat (5/8" Screw) Engine End
11			Screw, Hex Head - Cap (7/16-14x3-3/4")	34	526-0038	2	Generator End
	800-0082	2	Engine End	35	526-0038	1	Screw, Cap - Hex Head (3/8-16x4-1/2")
	800-0082	2	Generator End	36	800-0064	4	Washer, Lock - Spring (3/8")
12	800-0047	1	Screw, Cap - Hex Head (3/8-16x5/8")	37	850-0050	4	Strap, Ground
13	856-0010	1	Washer, Lock -EIT (3/8")	38	337-0418	1	5" Long - Key 6
14			Package, Hardware Mounting (Includes Parts Marked#)	39	337-2055	1	6" Long - All Except Key 6
	402-0477	1	Engine End	40	816-0197	1	Bolt, Carriage (7/16-14 x 1-1/4") - All Except Key 6
	402-0480	2	Generator End	41	856-0016	1	Washer, Lock (EIT) (5/8")
15	402-0283	2	#Cushion, Vibration Engine End	42	403-1484	1	Plate, Mounting - All Except Key 6
16			#Cushion, Vibration - Generator End	43	856-0012	1	Washer, Lock (EIT) (7/16")
	402-0283	1	Left Side	44	862-0004	1	Nut, Hex (7/16-14)
	402-0283	1	Right Side	45	816-0206	2	#Bolt, Carriage (7/16-14x3-1/2") Engine End
17			#Spacer, Sleeve	46	816-0206	1	Generator End(Left Side)
	402-0290	2	Engine End	47	816-0206	1	Generator End(Right Side)
	402-0290	1	Generator End(Left Side)	48	332-0142	1	Terminal, Ground
	402-0290	1	Generator End(Right Side)	49	856-0006	1	Washer, Lock - EIT (1/4")
18			#Snubber	50	850-0055	1	Washer, Lock (7/16")
	402-0282	2	Engine End				
	402-0282	1	Generator End(Left Side)				
	402-0282	1	Generator End(Right Side)				
21			#Nut, Hex (7/16-14)				
	862-0004	2	Engine End				
	862-0004	1	Generator End(Left Side)				
	862-0004	1	Generator End(Right Side)				

* - Parts Included In 102-0956 Oil Base.

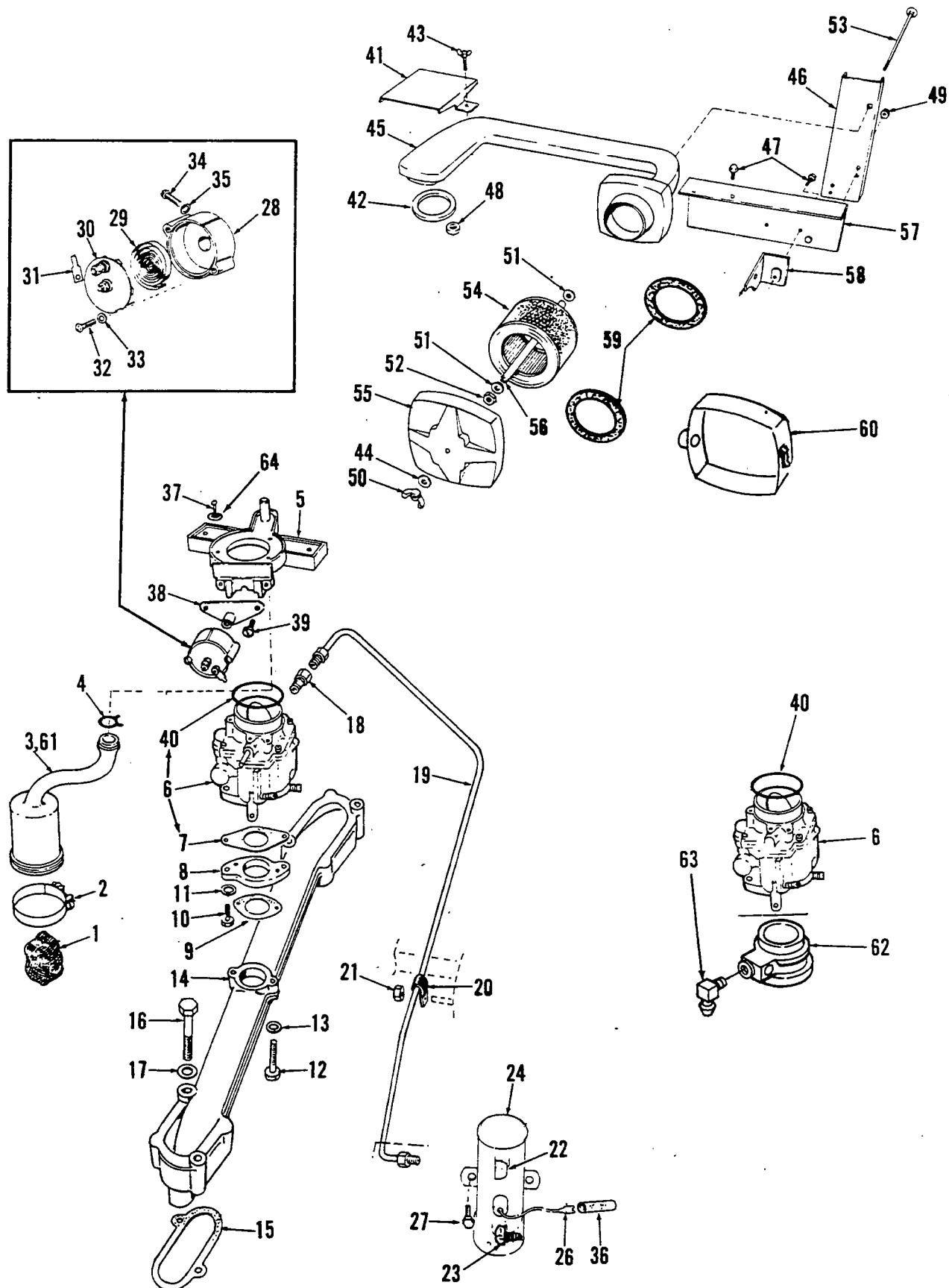
- Parts Included In Hardware Mounting Package.

Air Housing



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0008	4	Screw, Cap - Hex Head (1/4-20x5/16")	6	134-3701	1	Housing, Cylinder Air - Left Side
2	134-4387	1	Scroll 2 Position, With-Out Guard - Key 9	7	134-3700	1	Housing, Cylinder Air - Right Side
3	134-3149	1	Includes Guard - Keys 1,2,3	8	134-3418	1	Guard, Scroll Screen
3	821-0010	2	Screw, Cap - Hex Washer Head (1/4-20x1/2" Long)	134-4316	1	Keys 1, 2, 3	
4	134-3888	1	Backplate, Scroll 3 O-Clock Position - Key 4	9	815-0421	4	Guard - Wire Type - All Except Key 3
	134-3688	1	6 O-Clock Position - Keys 2, 3,5,6,7,10,11	10	850-0040	4	Screw, Self-Tapping - Hex Head (10-16x1/2")
5	134-3928	1	9 O-Clock Position - Keys 8,9	11	309-0077	1	Washer, Lock (1/4")
	815-0261	5	Screw, Tapping - Hex Head (1/4-20x1/2")				Switch, Temperature (Open 180° - Close 220° F)

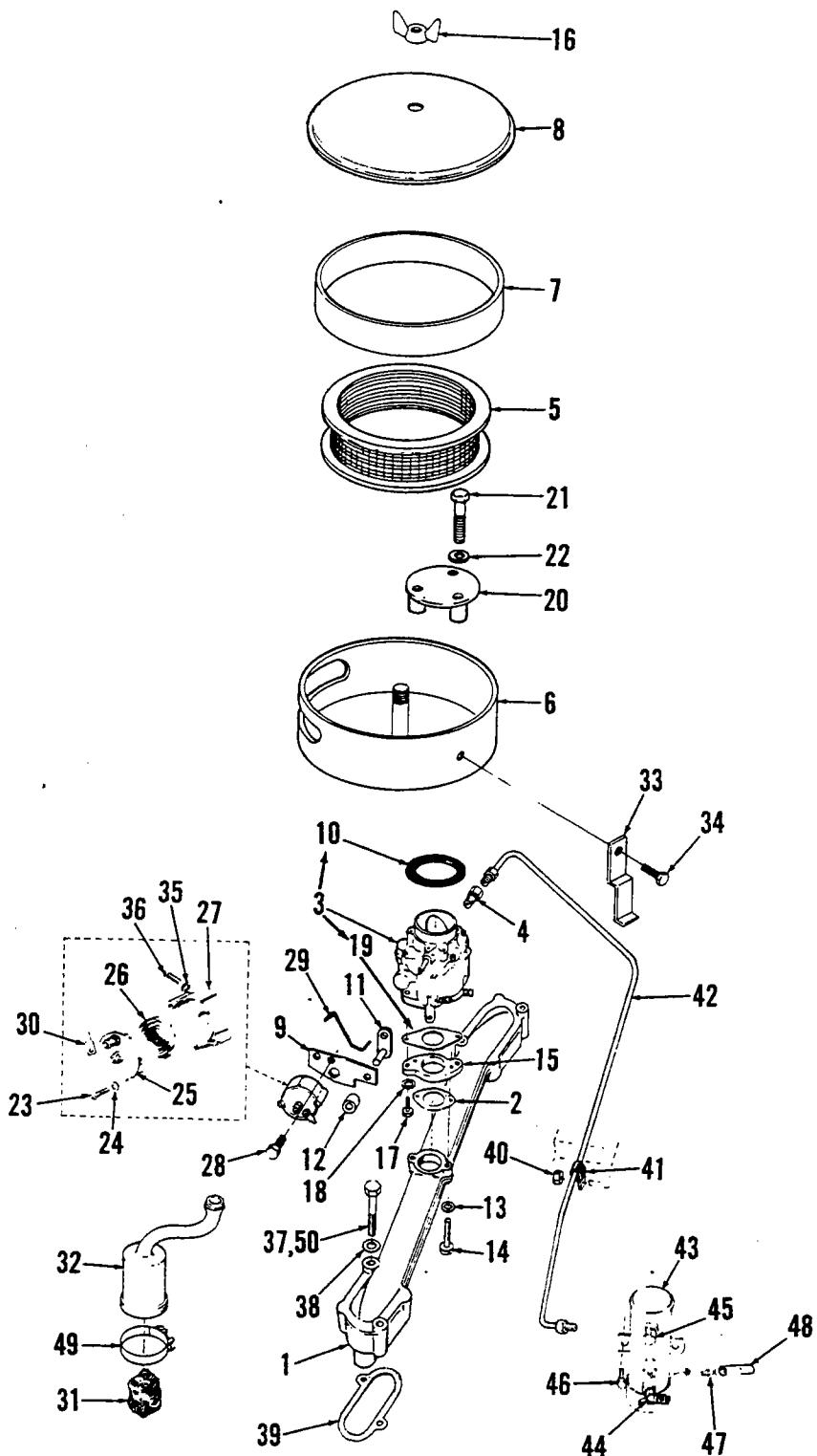
Fuel System (Low Profile Air Cleaner)
Keys 1,2,3,4,5,7,8,9,10,11,12



Fuel System (Low Profile Air Cleaner)
Keys 1,2,3,4,5,7,8,9,10,11,12

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	123-1417	1	Filter, Breather Hose - Gasoline Fuel System	32	815-0285	2	Screw, Machine - Round Head W/ET (#8-32x5/16")
2	503-0280	1	Clamp, Hose - Gasoline Fuel System	33	526-0062	2	Washer, Flat - Brass (#10 Screw)
3	123-1277	1	Breather	34	815-0110	1	Screw, Machine - Fillister Head (#10-32x7/8")
	503-0103	1	Tube (Gasoline Fuel System) Hose (LP Fuel System) - Keys 7,11	35	850-0030	1	Washer, Lock - Spring (#10)
4	503-0769	1	Clamp, Hose - Gasoline Fuel System	36	332-0556	1	Connector, Fuel Pump Lead
				37			Screw,
5	140-1492	1	Adapter, Air Duct	804-0017		3	Socket Head - Gasoline Fuel (#10-32x1/2" Long)
	140-1719	1	Gasoline Fuel System LP Fuel System - Keys 7,11	813-0111		3	Round Head, Machine - LP Fuel System (#10-32x2-1/4")
6			Carburetor, Complete (Includes Mounting Gasket) (See Separate Page For Components)	38	153-0499	1	Adapter, Choke
	146-0419	1	Gasoline Fuel System - Nikki	39	815-0359	2	Screw, Self-Tapping - Hex Head (#10-32x7/8" Long)
	146-0404	1	LP Fuel System - Keys 7,11	40			Seal, O-Ring
7	154-0733	1	Gasket, Carburetor To Adapter	509-0145		1	Gasoline Fuel System
8	154-1977	1	Adapter, Carburetor	509-0145		2	LP Fuel System - Keys 7,11
9	145-0438	1	Gasket, Adapter To Manifold	41	140-1520	1	Clamp, Air Duct
10	800-0028	2	Screw, Cap - Hex Head (5/16-18x1")	42	140-1502	1	Seal, Air Duct To Adapter
11	850-0045	2	Washer, Lock - Spring (5/16")	43	518-0390	2	Screw, Wing (1/4-20x3/4")
12	800-0023	2	Screw, Cap - Hex Head (1/4-20x1-3/8")	44	526-0021	1	Washer, Flat (1/4" Screw)
13	850-0040	2	Washer, Lock - Spring (1/4")	45	140-1503	1	Duct, Air Cleaner
14			Manifold, Intake	46	140-1531	1	Bracket, Air Duct Support
	154-2206	1	LP Fuel System - Keys 7,11	47	821-0009	3	Screw, Cap - Hex Head
	154-2666	1	Gasoline Fuel System - Keys 1,2,3,4,5,8,12	48	140-1521	1	Locking (1/4-20x3/8")
15	154-1446	2	Gasket, Intake Manifold	49	870-0212	2	Seal, Air Duct To Breather Port
16	800-0033	4	Screw, Cap - Hex Head (5/16-18x2")	50	865-0019	1	Nut, Hex - Locking (1/4-20)
17	850-0045	4	Washer, Lock - Spring (5/16")	51	526-0158	1	Nut, Wing (1/4-20)
18	502-0003	1	Connector, Inverted Male	52	870-0212	2	Washer, Flat (1/4" Screw)
19	149-1531	1	Line, Fuel - Gasoline	53	816-0070	1	Nut, Hex - Locking (1/4-20)
20	518-0350	1	Clamp, Loop - Insulated Keys 1,2,3,4,5,8,9,10,12	54	140-0495	1	Bolt, Carriage (1/4-20x6-1/2")
21	862-0015	1	Nut, Hex (5/16-18)	55	140-1504	1	Element, Air Cleaner
22	502-0002	1	Elbow, Inverted Male	56	140-1522	1	Cover, Air Cleaner
23	502-0313	1	Connector, Hose (90")	57	140-1529	1	Spacer, Air Intake
24	149-1828	1	Pump, Fuel (Electric)	58	140-1528	1	Bracket, Air Intake
26	332-0529	1	Terminal, Fuel Pump Lead	59	140-1533	2	Duct
27	821-0008	2	Screw, Hex - Lock (1/4-20x5/16")	60	140-1672	1	Brace, Air Intake Duct
28	153-0440	1	Housing, Choke (Includes Screw)	61	123-1484	1	Seal
29	153-0017	1	Bi-Metal, Choke	62	148-0840	1	Wrapper, Air Cleaner - Keys 5,10,11
30	153-0114	1	Element And Cover, Choke	63	502-0575	1	Tube, Breather (Copper) - LP Fuel System - Keys 7,11
31	332-0527	1	Terminal, Tab	64	850-0030	3	Adapter, Carburetor - LP Fuel System - Keys 7,11
							Elbow, Hose - 45° (1/2 NPT)
							LP Fuel System - Keys 7,11
							Washer, Lock (#10)
							LP Fuel System

Fuel System (High Profile Air Cleaner)
Key 6

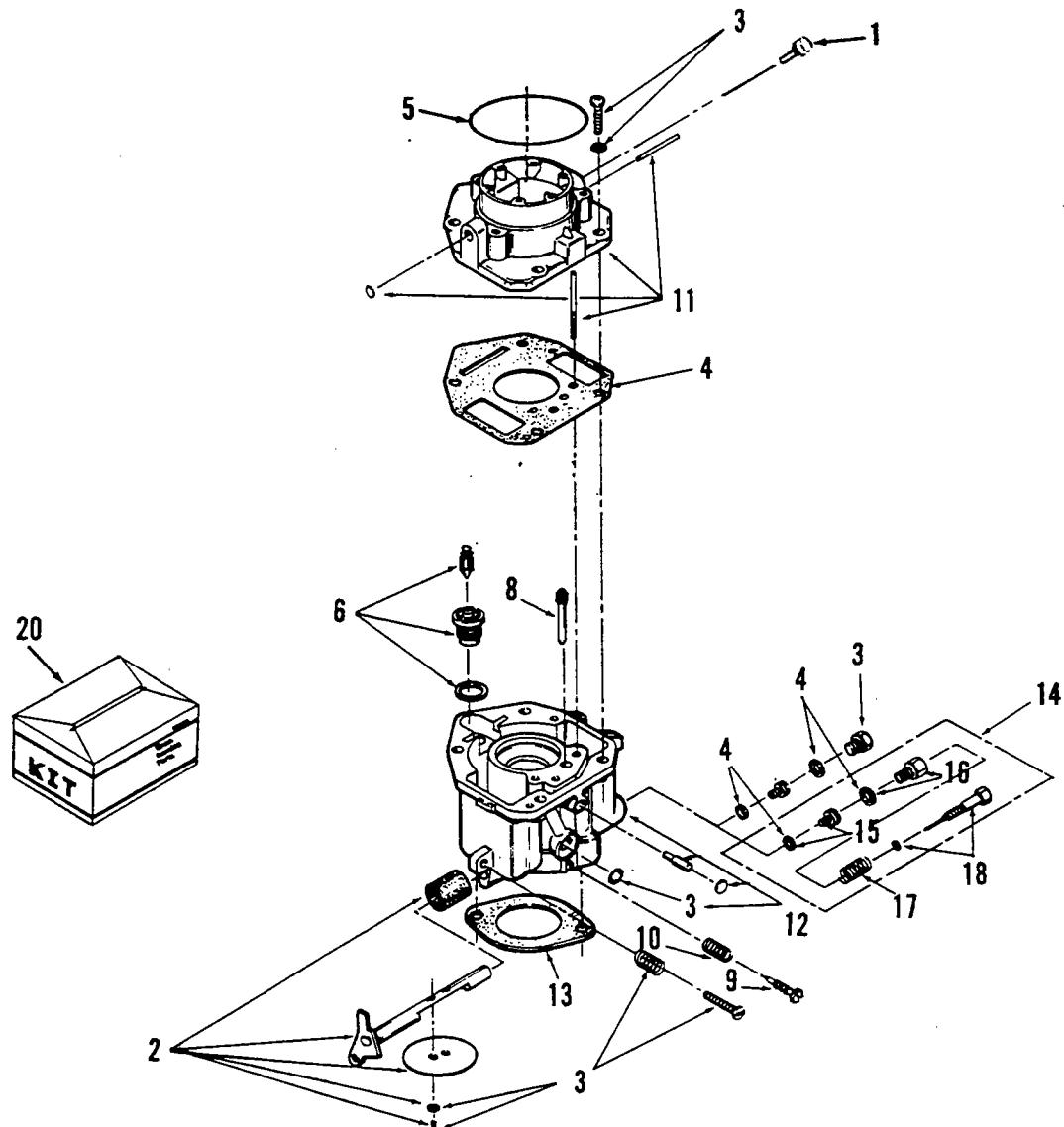


XFS 1462

Fuel System (High Profile Air Cleaner)
Key 6

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2206	1	Manifold, Intake	24	526-0062	2	Washer, Flat - Brass (Special)
2	145-0438	1	Gasket, Manifold To Carburetor Adapter	25	153-0114	1	Element And Cover, Choke
3	146-0440	1	Carburetor, Gasoline (See Separate Page For Components)	26	153-0017	1	Bi-Metal, Choke
4	502-0003	1	Connector, Inverted Male	27	153-0058	1	Housing, Choke
5	140-1228	1	Element, Air Cleaner	28	821-0004	2	Screw, Cap - Hex Washer Head (#10-32x5/16")
6	140-1711	1	Housing, Air Cleaner	29	153-0541	1	Link, Choke
7	140-1496	1	Wrapper, Filter Element	30	332-0527	1	Terminal, Tab
8	140-1494	1	Cover, Air Cleaner	31	123-1417	1	Filter, Breather Tube
9	153-0539	1	Bracket And Bushing, Choke	32	123-1429	1	Tube, Breather
10	509-0145	1	Seal, O-Ring	33	140-1736	1	Bracket, Air Cleaner Support
11	146-0241	1	Shaft, Electric Choke	34	821-0009	1	Screw, Cap - Hex Washer Head (1/4-20x3/8")
12	518-0387	1	Ring, Retainer	35	815-0110	1	Screw, Machine - Fillister Head (#10-32x7/8")
13	850-0040	2	Washer, Lock - Spring (1/4")	36	850-0030	1	Washer, Lock - Spring (#10)
14	800-0023	2	Screw, Cap - Hex Head (1/4-20x1-3/8")	37	800-0033	3	Screw, Cap - Hex Head (5/16-18x2")
15	154-1977	1	Adapter, Carburetor	38	850-0045	4	Washer, Lock - Spring (5/16")
16	865-0006	1	Nut, Wing (1/4-20)	39	154-1446	2	Gasket, Intake Manifold
17	800-0028	2	Screw, Cap - Hex Head (5/16-18x1")	40	862-0015	1	Nut, Hex (5/16-18)
18	850-0045	2	Washer, Lock - Spring (5/16")	41	518-0350	1	Clamp, Loop - Insulated
19	154-0733	1	Gasket, Carburetor To Adapter	42	149-1705	1	Line, Fuel
20	145-0521	1	Deflector, Carburetor Air Intake	43	149-1828	1	Pump, Fuel - Electric
21	815-0470	3	Screw, Machine - Hex Head (#10-32x1-1/2")	44	502-0313	1	Connector, Hose (90')
22	526-0234	3	Washer, Flat (#10 Screw)	45	502-0002	1	Elbow, Inverted Male
23	815-0285	2	Screw, Machine - Round Head W/ET (#8-32x5/16")	46	821-0008	2	Screw, Cap - Hex Lock (1/4-20x5/16")
				47	332-0529	1	Terminal, Fuel Pump Lead
				48	332-0556	1	Connector, Fuel Pump Lead
				49	503-0280	1	Clamp, Breather Tube
				50	800-0034	1	Screw, Cap - Hex Head (5/16-18x2-1/4")

Carburetor Components
LPG

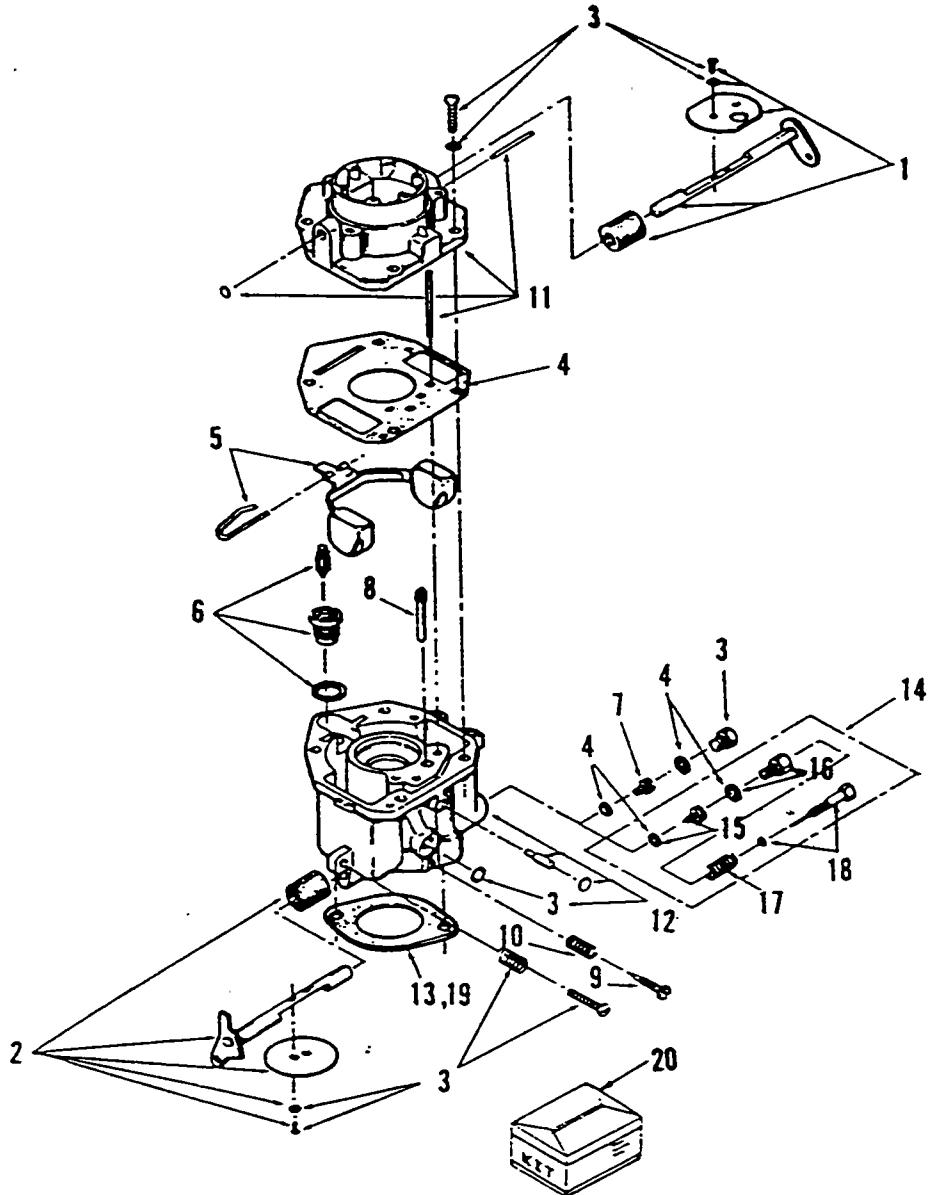


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	146-0404	1	Carburetor, LPG (Includes Mounting Gasket)		12	1	Body (Not Sold Separately)
1	815-0389	1	Screw, Hex Washer Head	13	154-0733	2	*Gasket, Mounting - Carburetor
2	146-0418	1	Shaft, Throttle (Kit)	14	146-0327	1	Variable Jet Kit - Optional (High Altitude Application) (Includes Parts Marked +)
3	146-0322	1	*Screw and Plug Kit	15	146-0343	1	+Jet, Power - Variable (Includes Gasket)
4	146-0326	1	*Gasket Kit	16	146-0340	1	+Retainer, Needle - Power (Includes Gasket)
5	509-0145	1	Seal, O-Ring	17	146-0341	1	+Spring, Needle - Power
6	146-0329	1	*Valve and Seat Kit	18	146-0342	1	+Needle, Power - Complete
8	146-0420	1	Jet, Idle	20	146-0356	1	Kit, Repair (Includes Parts Marked *)
9	146-0335	1	*Needle, Adjusting - Idle				
10	146-0331	1	*Spring, Needle - Idle Adjusting				
11		1	Intake, Air (Not Sold Separately)				

* - Parts Included in 146-0356 Repair Kit.

+ - Parts Included in 146-0327 Variable Jet Kit.

Carburetor Components
Gasoline - Nikki

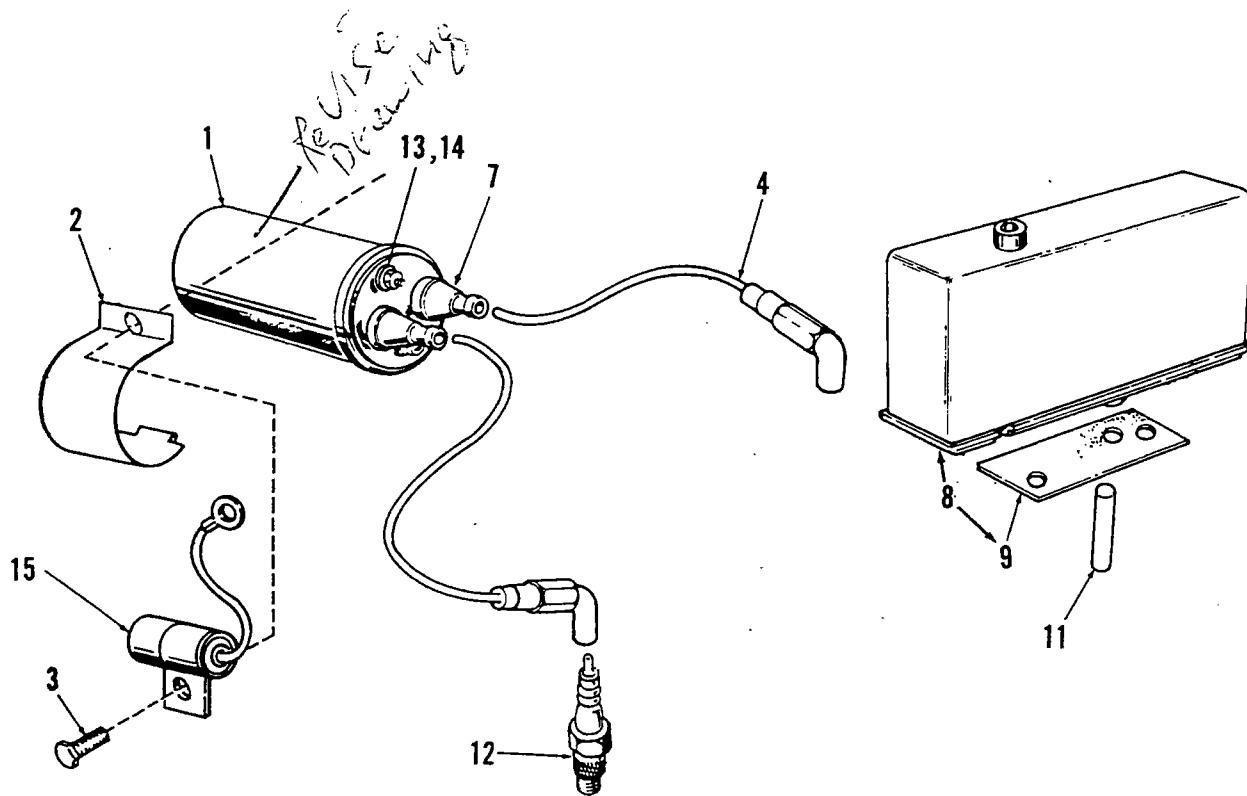


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Carburetor, Complete (Includes Mounting Gasket)	12		1	Body (Not Sold Separately)
146-0419	146-0440	1	Low Profile Models	13	154-0733	2	*Gasket, Mounting - Carburetor
146-0417	146-0418	1	High Profile Models	14	146-0327	1	Variable Jet Kit - Optional (High Altitude Application) (Includes Parts Marked +)
146-0418	146-0322	1	Choke, Shaft Kit	15	146-0343	1	+Jet, Power - Variable (Includes Gasket)
146-0326	146-0325	1	Shaft, Throttle (Kit)	16	146-0340	1	+Retainer, Needle - Power (Includes Gasket)
146-0329	146-0343	1	*Screw and Plug Kit	17	146-0341	1	+Spring, Needle - Power
146-0343	146-0329	1	*Gasket Kit	18	146-0342	1	+Needle, Power - Complete
146-0420	146-0343	1	Float, Kit	19	145-0438	1	*Gasket, Mounting - Carburetor
146-0335	146-0331	1	Jet, Power	20	146-0356	1	Kit, Repair (Includes Parts Marked *)
146-0331	146-0331	1	Jet, Idle				
		1	*Needle, Adjusting - Idle				
		1	*Spring, Needle - Idle				
			Adjusting				
11	11	1	Intake, Air (Not Sold Separately)				

* - Parts Included in 146-0356 Repair Kit.

+ - Parts Included in 146-0327 Variable Jet Kit.

Ignition



ES 1116

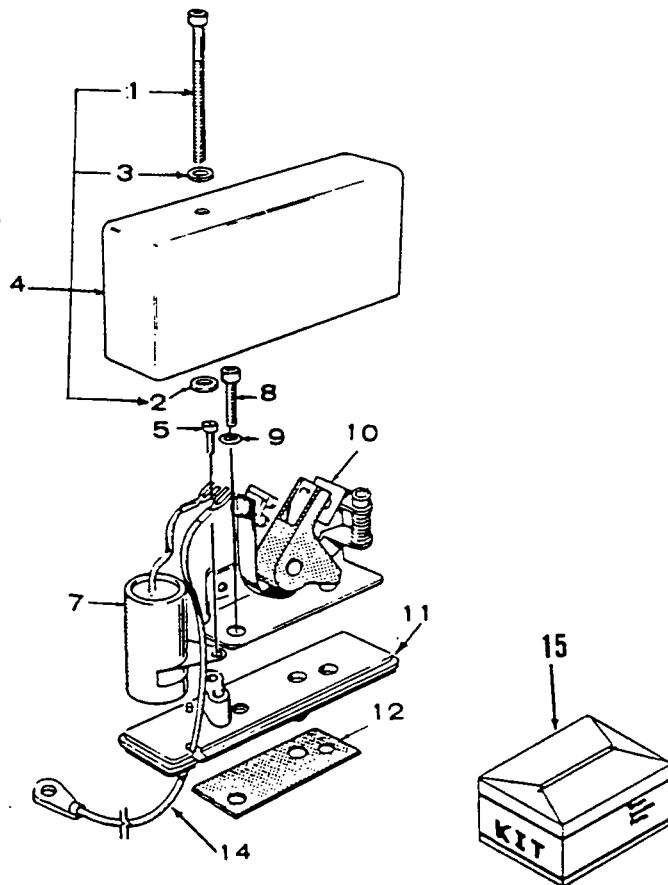
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	166-0772	1	Coil, Ignition
2	166-0588	1	Clamp, Coil
3	821-0009	4	Screw, Cap - Hex Washer Head (1/4-20x3/8")
4	167-1602	2	Cable, Spark Plug
7	160-0558	2	Nipple, Spark Plug Cable
8	160-1303	1	Box, Breaker (See Separate Page For Components) (Includes Mounting Gasket)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	160-1150	1	Gasket, Breaker Box Mounting
11	160-1151	1	Plunger, Breaker Points
12	167-0298	2	Plug, Spark
13	166-0554	2	Nut, Hex (Metric)
14	850-2005	2	Washer, Lock - Spring (Metric)
15	312-0051	1	Condenser, Ignition (.5 MFD)

160-1376 1 Kit, Electronic (Converts
Breaker Ignition To Electronic)

PSB#556/MR

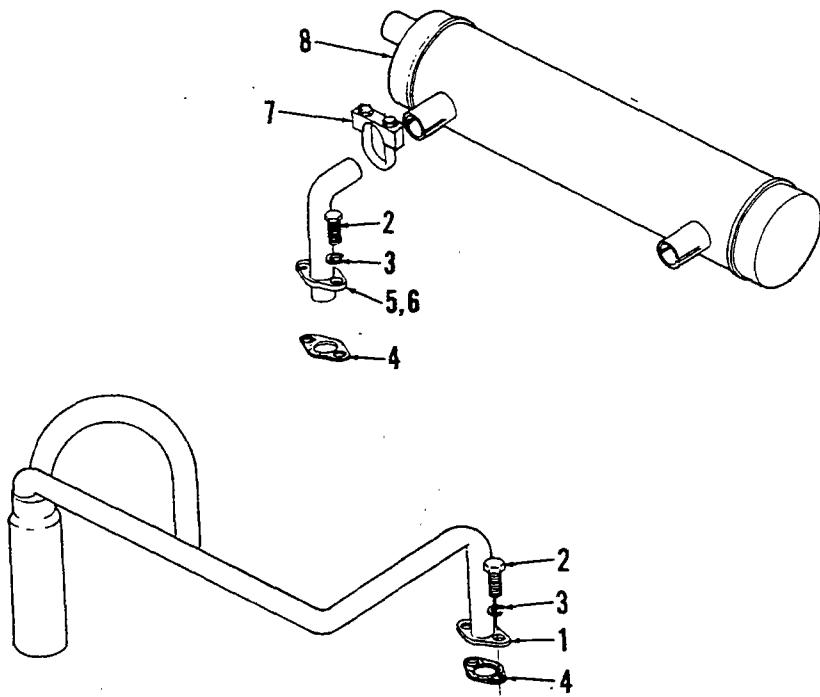
Breaker Box



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	160-1303	1	Breaker Box (Includes Parts Marked*)	8	802-0034	2	*Screw, Cap - Socket Head (1/4-20 x 3/4")
1	802-0022	1	*Screw, Cap - Hex Socket (#10-24 x 1-1/2")	9	850-0040	2	Washer, Lock (1/4")
2	509-0065	1	*Retainer (O-Ring)	10	160-1183	1	*Point Set, Breaker
3	526-0008	1	*Washer, Flat (#10 Screw)	11	160-1219	1	*Base, Breaker
4	160-1285	1	*Cover, Breaker Box	12	160-1150	1	*Gasket, Breaker Box
5	815-0358	1	*Screw, Cap - Slotted (#8-32 x 3/16")	14	336-2378	1	Lead, Breaker Box to Coil
7	312-0246	1	*Condenser	15	160-1311	1	Tune Up Kit (Includes Points and Condenser)

* - Parts Included in 160-1303 Breaker Box.

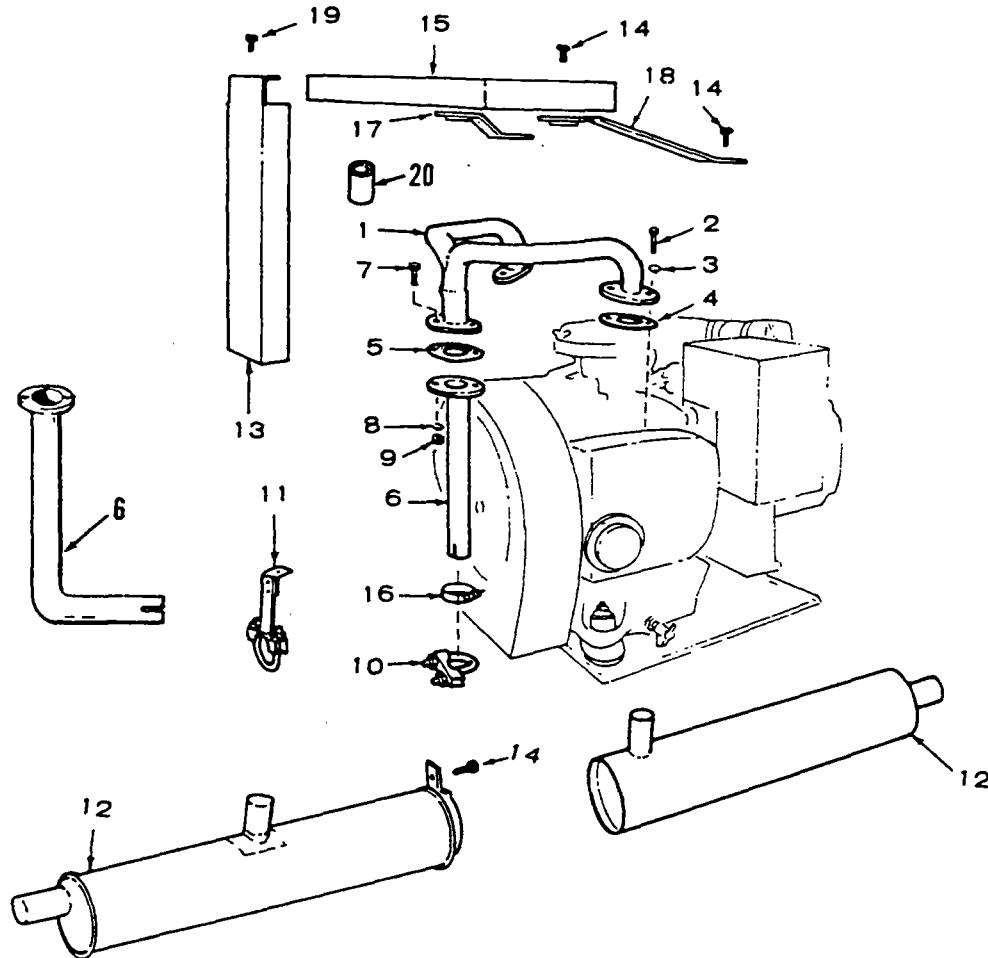
Exhaust System
(Sets With High Profile Air Cleaner)
Key 6, S (Optional)



EXS 1083

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-1762	1	Manifold, Exhaust - LH Down	5	154-2310	1	Elbow, Exhaust (Right)
2	800-0026	4	Screw, Cap - Hex Head (5/16-18 x 3/4")	6	154-2311	1	Elbow, Exhaust (Left)
3	850-0045	4	Washer, Lock - Spring (5/16")	7	155-1256	2	Clamp, Muffler
4	154-1725	2	Gasket, Exhaust Manifold	8	155-1851	1	Muffler, Exhaust (Spark Arrestor)

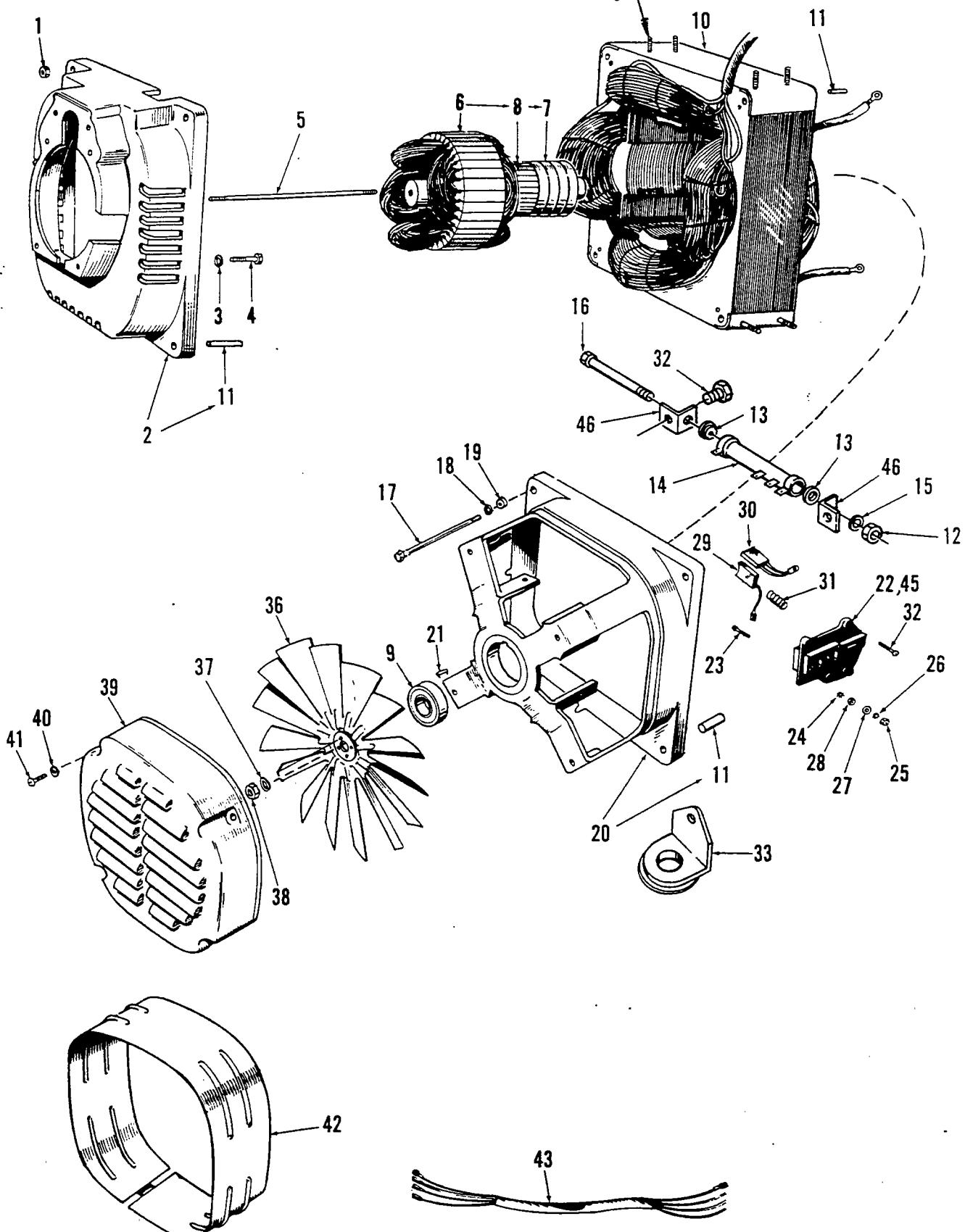
Exhaust System
(Sets With Low Profile Air Cleaner)
UL Listed And CSA Certified
Keys 1,2,3,4,5,7,8,9,10,11,12



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-1947	1	Manifold, Exhaust 5.25" Tall - Prior To 6/83 Keys 1,2,3,9,10,11	11	155-1234	1	Bracket And Clamp, Muffler Muffler, Exhaust
	154-2140	1	5.75" Tall - Keys 4,8	12	155-1258	1	End Inlet - Spark Arrestor
	154-2425	1	Includes Heat Shield - Begin 6/83	13	155-1520	1	Center Inlet - Key 9
	154-1762	1	Left Hand Down - Key 10,5	14	155-1851	1	Spark Arrestor - Key 7
2	800-0026	4	Screw, Cap - Hex Head (5/16-18x3/4")	15	155-1910	1	Center Inlet (Used With 90° Bend Exhaust Tube)
3	850-0045	4	Washer, Lock - Spring (5/16")	16	154-2146	1	Shield, Heat - Down Pipe (14" Long) - Delete Keys 7,8
4	154-1725	2	Gasket, Exhaust Manifold	17	821-0010	4	Screw, Cap - Hex Head - Locking (1/4-20x1/2")
5	154-2061	1	Gasket, Exhaust Tube	18	154-1972	1	Shield, Heat - Exhaust Manifold - Prior To 6/83 - Delete Keys 7,8
6	154-1528	1	17 1/2" Long	19	503-0107	1	Clamp, Shield To Exhaust Tube
	154-2143	1	12 1/2" Long	20	154-1883	1	Bracket, Heat Shield - Left Side - Keys 9,12
	154-2554	1	90° Bend - With Attached Clamp (18" Long) X 13.5"	21	154-1886	1	Bracket, Heat Shield - Right Side - Keys 9,12
7	800-0030	2	Screw, Cap - Hex Head (5/16-18x1-1/4")	22	821-0010	1	Screw, Cap - Locking Head (1/4-20x1/2")
8	850-0045	2	Washer, Lock - Spring (5/16")	23	152-0184	1	Spacer, Heat Shield Mounting - Key 9
9	862-0015	2	Nut, Hex (5/16-18)				
10	155-1239	1	Clamp, Muffler				

Generator
Keys 1,5,8,9,12

870-0264



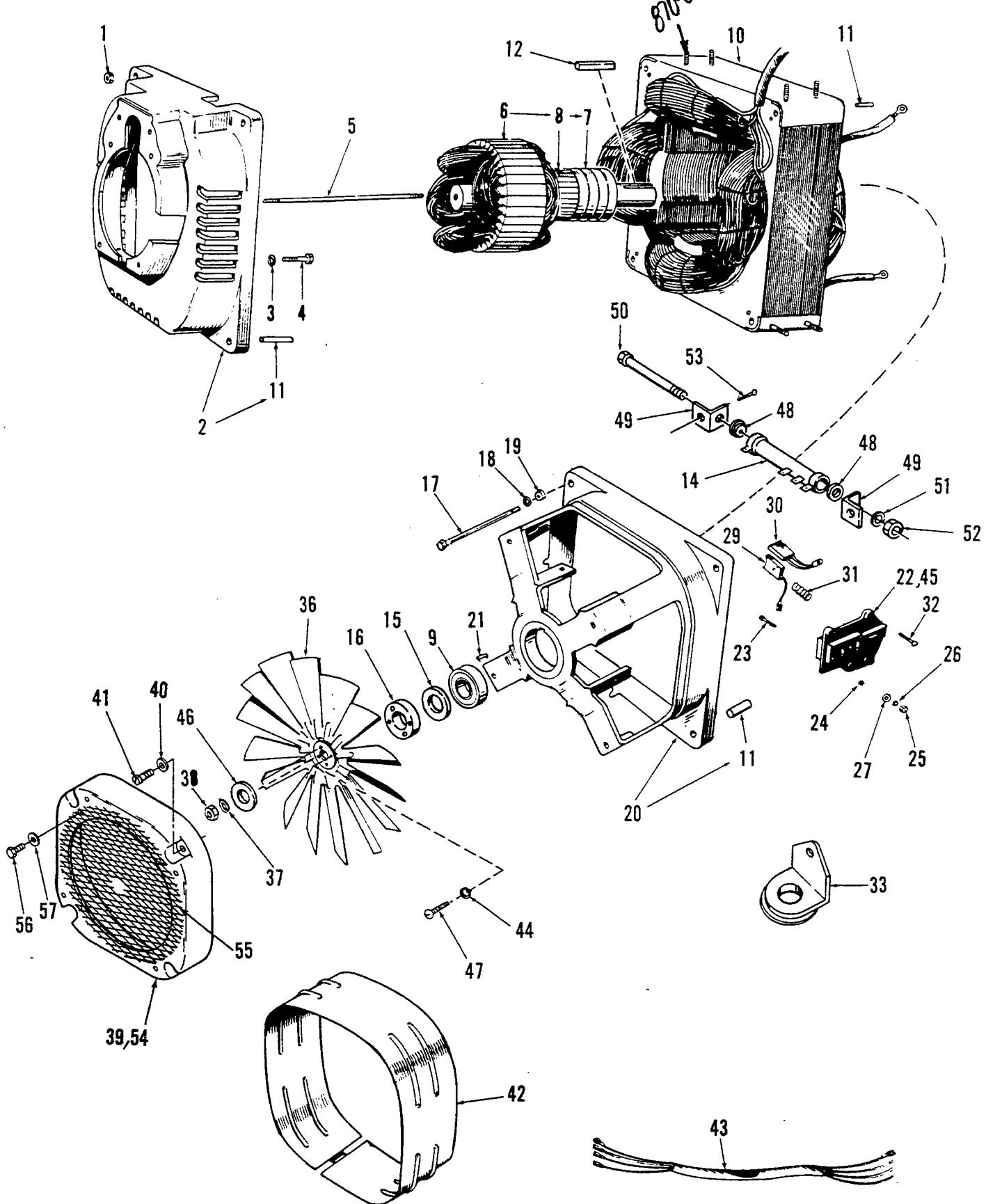
**Generator
Keys 1,5,8,9,12**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	862-0015	4	Nut, Hex (5/16-18)	21	232-0596	1	Clip, Bearing Retainer
2	231-0164	1	Adapter, Generator To Engine (Includes Alignment Pins)	22			Block, Generator Brush (Includes Parts Marked+)
3	850-0050	4	Washer, Lock - Spring (3/8")	212-0361		1	Top
4	800-0050	4	Screw, Cap - Hex Head (3/8-16x1-1/4")	212-0345		1	Right Side
5	520-0732	1	Stud, Armature Through	212-0352		1	Bottom
6			Armature (Includes Parts Marked*)	212-0353		1	Left Side
	201-2421	1	120/240 Volt, 3 Phase - Key 5	23	815-0341	4	+Screw, Cap - Hex Head Brass (#10-32x1")
	201-2504	1	120/240 Volt, 1 Phase - Keys 9,12	24	853-0008	4	+Washer, Lock - ET (#10)
	201-2405	1	120/240 Volt, 1 Phase - Keys 1,8	25	871-0010	8	+Nut, Hex - Brass (#10-32)
7	204-0110	1	*Ring, Collector	26	853-0008	4	+Washer, Lock - ET (#10)
8	203-0153	1	*Commutator	27	526-0049	8	+Washer, Flat - Brass (#10 Screw)
9	510-0047	1	*Bearing, Ball	28	871-0010	8	+Nut, Hex - Brass (#10-32)
10			Stator, Wound	29	214-0095	4	+Brush, Commutator (DC)
	220-1818	1	120/240 Volt, 1 Phase - Keys 9,12	30	214-0096	8	+Brush, Collector Ring (AC)
	220-1820	1	120/240 Volt - Keys 1,5,8	31	212-1232	12	+Spring, Brush
11	516-0196	4	Pin, Alignment	32	815-0359	17	Screw, Cap - Hex Head - Locking - (#10-32x7/8")
12	860-0011	1	Nut, Hex (#10-24)	33	402-0475	2	Support, Generator
13	304-0015	2	Washer, Centering - Resistor Resistor, Fixed	36	205-0090	1	Fan, Cooling
14	353-0072	1	5.7 Ohms At 25 Watts, 2.5 Ohms At 50 Watts (4-1/2" Long) - Key 3	37	850-0055	1	Washer, Lock - Spring (7/16")
	353-0084	1	5.7 Ohms At 25 Watts, 1.6 Ohms At 50 Watts (4-1/2" Long) - Keys 7,12	38	870-0203	1	Nut, Hex (7/16-20)
15	850-0030	1	Washer, Lock - Spring (#10)	39	232-2107	1	Cover, Generator
16	812-0118	1	Screw, Machine - Round Head (#10-24x5")	40	850-0040	2	Washer, Lock - Spring (1/4")
17	800-0043	4	Screw, Cap - Hex Head (5/16-18x5")	41	812-0156	4	Screw, Round Head - Machine (1/4-20x1/2")
18	850-0045	4	Washer, Lock - Spring (5/16")	42	234-0362	1	Wrapper, Generator
19	526-0115	4	Washer, Flat (5/16" Screw)	43	338-0946	1	Harness, Wiring
20	211-0364	1	Bell, End (Includes 4 Locating Pins)		338-1419	1	1 Phase - Keys 1,8
					338-1852	1	3 Phase (6 Wire) - Key 5
				45		1 Phase (4 Wire) - Keys 9,12	
						+Block, Generator Brush	
						Top And Left Side	
						Bottom And Right Side	
				46	304-0706	2	Bracket, Resistor Mounting

* - Parts Included In The Armature.

+ - Parts Included In The Brush Block.

Generator- Extended Shaft
Keys 2,3,4,6,7,10,11



Generator- Extended Shaft
Keys 2,3,4,6,7,10,11

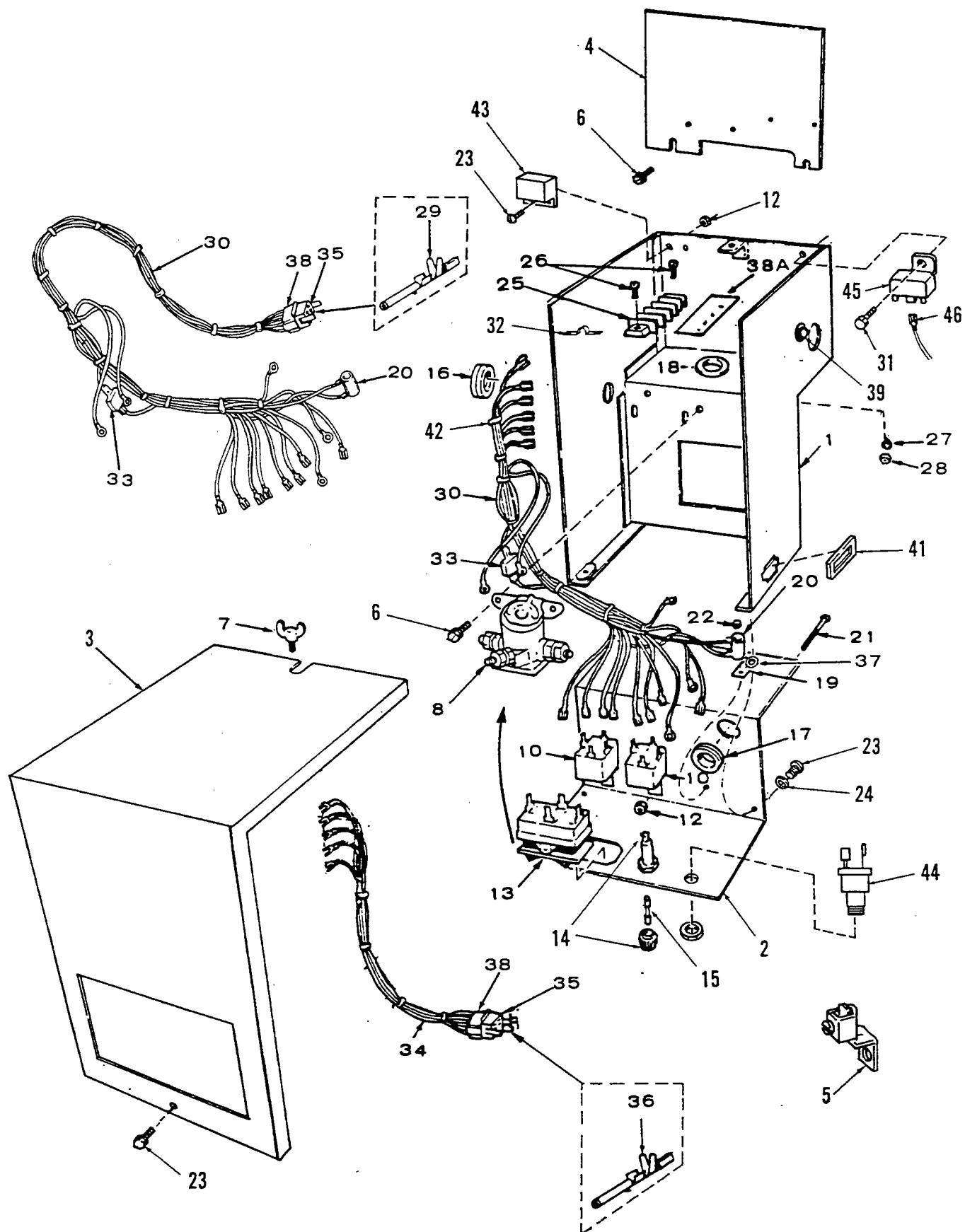
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	862-0015	4	Nut, Hex (5/16-18)	22			Block, Generator Brush (Includes Parts Marked+)
2	231-0164	1	Adapter, Generator To Engine (Includes Alignment Pins)	212-0361	1		Top
3	850-0050	4	Washer, Lock - Spring (3/8")	212-0345	1		Right Side
4	800-0050	4	Screw, Cap - Hex Head (3/8-16x1-1/4")	212-0352	1		Bottom
5			Stud, Armature Through	212-0353	1		Left Side
	520-0733	1	7/16 x 17-1/8" Long - Key 6	23	815-0341	4	+Screw, Cap - Hex Head Brass (#10-32x1")
	520-0781	1	7/16 x 17-7/8" Long - Keys 2,3,4,7,10,11	24	853-0008	8	+Washer, Lock - ET (#10)
6			Armature (Includes Parts Marked*)	25	871-0010	8	+Nut, Hex - Brass (#10-32)
	201-2524	1	120/240 Volt, 1 Phase Keys 4,7	26	853-0008	8	+Washer, Lock - ET (#10)
	201-2531	1	120/240 Volt, 3 Phase - Keys 10,11	27	526-0049	8	+Washer, Flat - Brass (#10)
	201-2528	1	120/240 Volt, 3 Phase - Key 6	29	214-0095	4	+Brush, Commutator (DC)
	201-2573	1	120 Volts, 1 Phase - 2 Step Battery Charger - Keys 2,3	30	214-0096	8	+Brush, Collector Ring (AC)
7			*Ring, Collector	31	212-1232	12	+Spring, Brush
	204-0110	1	4 Wire, 120/240 Volt	32	815-0359	17	Screw, Cap - Hex Head - Locking - (#10-32x7/8")
	204-0125	1	2 Step Battery Charger - 120 Volt Single Phase	33	402-0475	2	Support, Generator
8	203-0153	1	*Commutator	36	205-0116	1	Fan, Cooling
9	510-0047	1	*Bearing, Ball	37	850-0055	1	Washer, Lock - Spring (7/16")
10			Stator, Wound	38	870-0203	1	Nut, Hex (7/16-20)
	220-1820	1	120/240 Volt - Keys 4,6,7,10,11	39	232-2827	1	Cover, Generator (Includes Parts Marked#)
	220-1823	1	2 Step Battery Charger - 120 Volt - Keys 2,3	40	850-0040	4	Washer, Lock - Spring (1/4")
11			Pin, Alignment	41	812-0156	4	Screw, Round Head - Machine (1/4-20x 1-1/2")
	516-0196	4	Keys 2,7,10	42	234-0362	1	Wrapper, Generator Harness, Wiring
	516-0182	4	Keys 3,4,6,11	43	338-0947	1	3 Phase - Keys 10,11
12	515-0015	1	Key, Extended Shaft (3/16x1-3/4")	44	850-0030	4	1 Phase - Keys 4,7
14			Resistor, Fixed	45	212-0360	2	3 Phase (6 Wire) - Key 6
	353-0072	1	5.7 Ohms At 25 Watts, 2.5 Ohms At 50 Watts (4-1/2" Long) - Keys 5,6	46	526-0032	1	1 Phase - 2 Wire - Keys 2,3
	353-0084	1	5.7 Ohms At 25 Watts, 1.6 Ohms At 50 Watts (4-1/2" Long) - Keys 7,10,11	47	804-0016	4	Washer, Lock (#10)
15	526-0044	2	Washer, Flat (1" Screw)	48	304-0015	2	+Block, Generator Brush
16	232-2586	1	Hub, Fan	49	304-0706	2	Top And Right Side
17	800-0043	4	Screw, Cap - Hex Head (5/16-18x5")	50	812-0118	1	Bottom And Left Side
18	850-0045	4	Washer, Lock - Spring (5/16")	51	850-0030	1	Washer, Flat (7/16" Screw)
19	526-0115	4	Washer, Flat (5/16" Screw)	52	860-0011	1	Screw, Socket Head (10-32x3/8")
20	211-0365	1	Bell, End (Includes 4 Alignment Pins)	53	815-0333	2	Washer, Centering - Resistor
21	232-0596	1	Clip, Bearing Retainer	54	232-2587	1	Bracket, Resistor Mounting
				55	234-0530	1	Screw, Pan Head (#10 x 5")
				56	815-0350	4	Washer, Lock (#10)
				57	526-0009	4	#Screw, Hex Washer Head - Slotted (#10-32x3/8")
					98-5713	1	#Washer, Flat (#10 Screw)
							Label, Warning (Not Shown)

* - Parts Included In The Armature.

+ - Parts Included In The Brush Block.

- Parts Included In 232-2827 Fan Cover.

Control



**Control
Keys 1,2,3,4,7,8,9,10,11,12**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-4634	1	Box, Control	27			Washer, Lock
2	301-4442	1	Panel, Control	853-0003	2		External (#6)
			Units Without Ignition	854-0006	2		Internal (#6)
			Switch	28	860-0005	2	Nut, Hex (#6-32)
3	301-9011	1	Units With Ignition Switch	29	323-0488	5	#Pin, Connector - Female
			Cover, Control Box (Includes Schematic)	30			Harness, Wiring (Includes Parts Marked*)
	301-4545	1	2 Step Battery Charger Without Ignition Switch Keys 1,9,10,11,12	338-1200	1		Without Key Operated Ignition Switch - With Electric Choke Keys 1,2,3,4,8,9,10,12
	301-4894	1	2 Step Battery Charger Without Ignition Switch Keys 2,3,4,7,8	338-1677	1		Without Key Operated Ignition Switch - Without Electric choke - Keys 7,11
4	301-4441	1	Plate, Control	338-1820	1		With Key Operated Ignition Switch - With Electric Choke
5	332-0142	1	Terminal, Solderless - Keys 7,11				
6	821-0008	4	Screw, Hex - Self-Lock (1/4-20x5/16")	31	815-0350	1	Screw, Hex Washer Head (10-32x3/8")
7	518-0056	1	Screw, Wing (#10-32x1/2")	32	332-1043	1	*Jumper, Terminal Block
8	307-1617	1	Relay, Start Solenoid	33	357-0030	1	*Rectifier, Silicon
10	307-2562	2	*Relay, Ignition (Crank And Run)	34			Harness, Wiring - Remote - Includes Parts Marked+ -
12	870-0131	4	Nut, Hex W/ET (#10-32)	338-1082	1		Key 9
13	308-0383	1	Switch, Start-Stop				Includes Parts Marked#
14			Holder, Fuse	35	323-0400	1	+Pin, Housing Connector
	321-0175	2	Units Without Ignition	36	323-0500	5	+Pin, Connector - Male
			Switch	37	508-0015	1	Washer, Insulator
	321-0175	1	Units With Ignition Switch	38	323-0440	1	#Housing, Socket
15			Fuse	38A			Strip, Marker
	321-0174	2	5 Ampere				Use With 332-0254 Block -
	321-0146	1	10 Ampere	332-2099	1		Without Ignition Switch -
16	508-0208	1	Bushing, Nylon				Keys 9,12
17	331-0088	1	Bushing, Insulating	332-2103	1		Use With 332-0699 Block
18	508-0191	1	Bushing, Nylon	332-2313	1		Use With 332-0254 Block -
19	304-0580	1	Insulator, Resistor Mounting				With Ignition Switch
20	352-0161	1	*Resistor, 100-Ohm, 5 Watt	39	320-0540	2	Breaker, Circuit - 15 Amp -
21	812-0087	1	Screw, Machine - Round Head (#8-32x1-1/2")				Keys 9,12
22	870-0221	1	Nut, Hex W/ET (#8-32)	41	508-0021	1	Grommet, Rubber
23	821-0004	5	Screw, Cap - Hex Head (#10-32x5/16")	42	332-0942	16	*Tie, Cable
24	854-0010	2	Washer, Lock - IT (#10)	43	305-0383	1	Regulator, Voltage
25			Block, Terminal	44	308-0788	1	Switch, Ignition - With Key
	332-0254	1	4 Terminal, 50 Amps - Keys 9,12	45	307-1575	1	Relay, Ignition (Key 308-092)
	332-0699	1	* 6 Terminal, 20 Amps	46	332-0556	1	Connector, Relay
26			Screw, Round Head - Machine (#6-32x5/8")				Connector, Wire Nut (Not Shown)
	812-0065	2	(#6-32x3/4") - Units With Ignition Switch - Key Operated	323-1088	3		Keys 4,7,8,9,12
	812-0066	2		323-1088	2		Keys 2,3

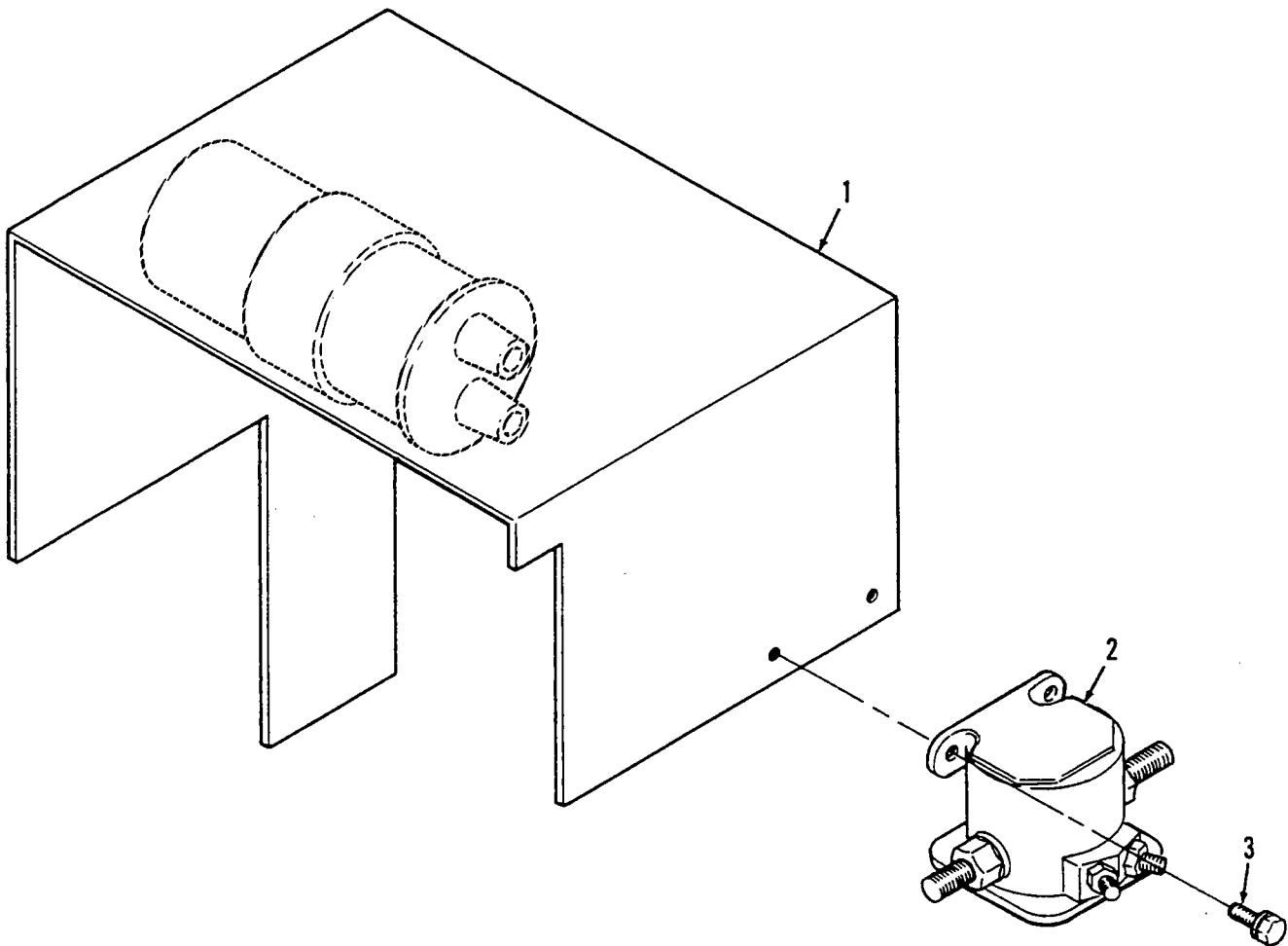
* - Parts Included In Wiring Harness 338-1200, 338-1677, 338-1820.

- Parts Included In Wiring Harness 338-1078.

+ - Parts Included In Wiring Harness 338-1082.

?
 R/H for Key (308-092)
 J/P, P/H
 See NH

**Control
Keys 5,6**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	234-0664	1	Bracket, Generator Frame
2	307-1193	1	Relay, Start Solenoid

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	821-0009	2	Screw, Cap - Hex Washer Head (1/4-20x3/8")

Labels, Paint And Thread Sealant

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
98-2899		1	Decal, Warning - Battery - Keys 1,2,3,4,5,7,8,9,10,11,12	98-4267		1	Decal, Identification (4.0 RV) Keys 4,8,10,11
98-3234		1	Decal, Control Panel - Keys 1, 2,3,4,7,8,9,10,11,12	98-4690		1	Decal, Identification (4.0 Gen. Set) - Keys 7,9,12
98-3278		1	Decal, Choke Label - Keys 1,4, 5,8,10,11	518-0452		1	Sealant, Thread (50cc. Bottle)
98-4856		1	Decal, Service Instructions - Keys 2,3,4,5,7,8,9,10,11,12	525-0305		1	Paint, Enamel Touch-Up - Green (Non-Metallic) 13oz. Pressur- ized Can
98-2863		1	Decal, Service Instructions - Keys 1,6				

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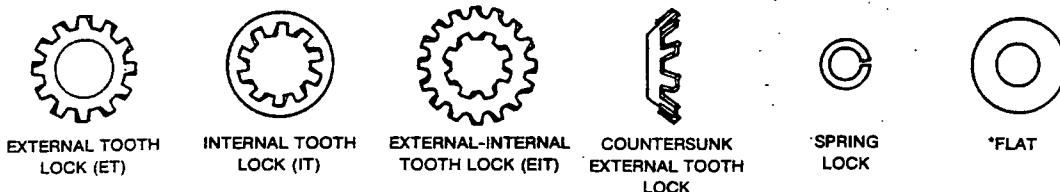
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HARDWARE IDENTIFICATION

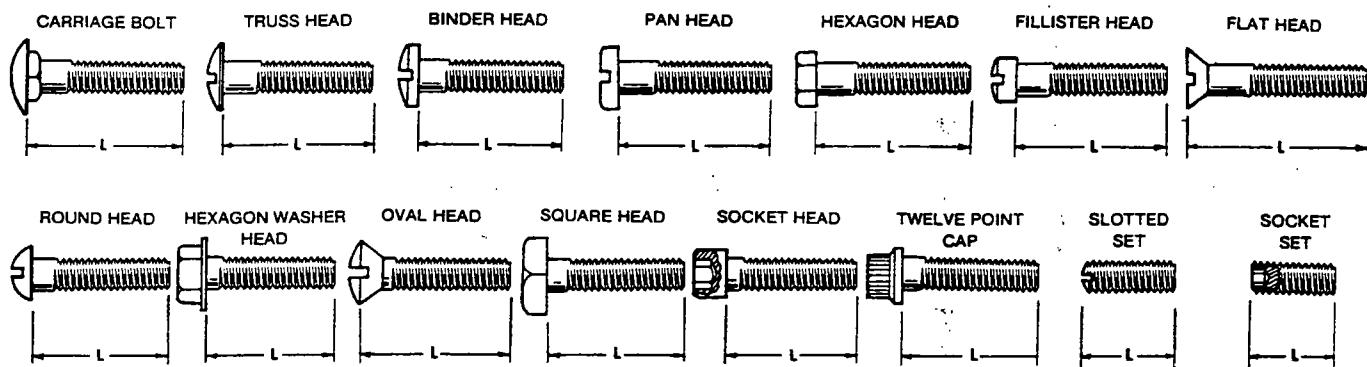
Illustrated hardware items are only for identification purposes. All hardware items listed throughout this part catalog are steel SAE grade five (5) or lower (zinc plated with clear chromate dip) unless parts descriptive indicates differently. All dimensions are in inches.

WASHER TYPES



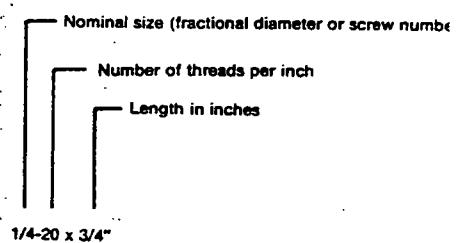
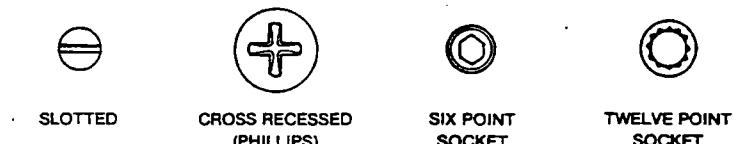
* - Flat washer dimensions given are: Inside Diameter (ID), Outside Diameter (OD) and Thickness (Thk).

BOLT AND SCREW TYPES



L - Measure length between these points.

INTERNAL DRIVE TYPES



NUT TYPES



SPECIAL PARTS LIST FOR MODEL 4.0 BFA-3CR SPEC 15000C

FOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO.

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
146-0419	1	Carburetor, Gasoline (For breakdown parts, see Parts Catalog 965-0262)			

SPECIAL PARTS LIST FOR MODEL 4.0 BFA-8R SPEC 15000D
 FOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO.
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BEI
 WIRING DIAGRAM NO. 611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		RV Style Air Cleaner (Plastic) Gasoline Fuel System			
201-2413	1	Armature Assembly (Includes parts marked *)			
204-0110	1	*Ring, Collector			
203-0153	1	*Commutator			
510-0047	1	*Bearing, Ball			
338-0947	1	Harness, Wiring - 4 wire			
301-4894	1	Cover, Control Box (Includes Schematic)			
323-1088	2	Connector, Wire Nut			

SPECIAL PARTS LIST FOR MODEL 4.0 BFA-1R

SPEC 19486C

FOR STANDARD PARTS REFER TO CATALOG 965-0262

KEY NO.

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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146-0419	1	Carburetor, Gasoline (For breakdown parts, See Parts Catalog 965-0262)			
338-0948	1	Harness Wiring			
301-4894	1	Cover, Control Box			
323-1088	2	Connector, Wire Nut - Control			

SPECIAL PARTS LIST FOR MODEL 4.0 BFA-1R SPEC 19486D
FOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO.
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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RV Style Air Cleaner (Plastic)

Gasoline Fuel System

Two-Step Battery Charger

Extended Shaft Generator

338-0948	1	Harness, Wiring - 4 Wire
301-4894	1	Cover, Control Box (Includes Schematic)
323-1088	2	Connector, Wire Nut

SPECIAL PARTS LIST FOR MODEL

4.0BFA-3CR

SPEC

20275C

FOR STANDARD PARTS REFER TO CATALOG

965-9262

KEY NO.

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO.

611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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Right Vacu F10 Exhaust(90°)
Extended Shaft Generator
RV Style Air Cleaner (plastic)
Gasoline Fuel System

PARTS NOT FURNISHED BY CHAY

Exhaust Heat Shields

Dated

11/19/84

Revised

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SPECIAL PARTS LIST FOR MODEL 4.0 BFA-5DR **SPEC** 22540C
FOR STANDARD PARTS REFER TO CATALOG 965-0262 **KEY NO.** _____
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 606-0205

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
MANUFACTURED FOR: GENERAL CABLE					
RV Style Air Cleaner (plastic) Gasoline Fuel System Cross-over Muffler With Spark Arrestor Valve Stem Oil Seals-Intake Air Cleaner Wrapper Two-Step Battery Charger					
234-0664	1	Bracket, Fuel Pump, Coil and Start Solenoid.			
PARTS NOT FURNISHED BY QUAN					
Control Assembly					

Dated 11/19/84

Revised _____

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SPECIAL PARTS LIST FOR MODEL 4.0 BEA-5DR
FOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO.
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 606-0220

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
MANUFACTURED FOR: GENERAL CABLE					
		Industrial Style Air Cleaner			
		Gasoline Fuel System			
		Exhaust Manifold, Left Hand Down.			
		Extended Shaft Generator			
		Valve Stem Oil Seals-Intake			
		Two-Step Battery Charger			
		Air Cleaner Wrapper			
234-0664	1	Bracket, Fuel Pump, Coil and Start Solenoid			
Parts Not Furnished By Onan					
		Exhaust Heat Shields			
		Mounting Plate			
		Control Assembly			

Dated 11/19/84

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SPECIAL PARTS LIST FOR MODEL 4.0BFA-3CR SPEC 25206C
FOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO.
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)
WIRING DIAGRAM NO. 611-1142-10

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		RV Style Air Cleaner (Plastic)			
		LP Vapor Fuel System			
		Spark Arrestor Muffler			
		Two-Step Battery Charger			
		Valve Stem Oil Seals-Intake			
		Extended Shaft Generator			
PARTS NOT FURNISHED BY CHAH					
Exhaust Heat Shields					

SPECIAL PARTS LIST FOR MODEL 4.0 BFA - 3CR SPEC 25505C
FOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO. _____
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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MANUFACTURED FOR: THE MANUFACTURING

RV Style Air Cleaner (plastic)

Gasoline Fuel System

Valve Stem Oil Seals-Intake

Extended Shaft Generator

Air Cleaner Wrapper

PARTS NOT FURNISHED BY ONAN

Exhaust Heat Shields

Dated 11/19/84

Revised _____

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SPECIAL PARTS LIST FOR MODEL 4.0BFA-3CR SPEC 25998C
FOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO.
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)
WIRING DIAGRAM NO. 611-1142-10

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		RV Style Air Cleaner (plastic)			
		L.P. Vapor Fuel System			
		Right Vacu Flo Exhaust (90°)			
		Spark Arrestor Muffler			
		Extended Shaft Generator			
		Two-Step Battery Charger			
		Valve Stem Oil Seals-Intake			
PARTS NOT FURNISHED BY ONAN					
Exhaust Heat Shields					

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SPECIAL PARTS LIST FOR MODEL 4.0BFA-3CR
FOR STANDARD PARTS REFER TO CATALOG 965-0262
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW).

WIRING DIAGRAM NO. 611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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Valve Stem Oil Seals-Intake
RV Style Air Cleaner (Plastic)
Gasoline Fuel System
Left Vacu Flo Exhaust (270°)

PARTS NOT FURNISHED BY GMAN

Exhaust Heat Shields

Dated 11/20/84

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SPECIAL PARTS LIST FOR MODEL

4.0 BFA-BCR

SPEC 26805C

FOR STANDARD PARTS REFER TO CATALOG

965-0262

KEY NO.

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

611-1171-03

WIRING DIAGRAM NO.

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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RV Style Air Cleaner (plastic)

Gasoline Fuel System

Left Vacu Flo Exhaust (270°)

Two-Step Battery Charger

SPECIAL PARTS LIST FOR MODEL 4.0 BFA-5DR SPEC 26927C

FOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO.

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW).

WIRING DIAGRAM NO. 611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Industrial Style Air Cleaner					
Gasoline Fuel System					
Valve Stem Oil Seals-Intake					
Exhaust Manifold, Left Hand Down					
Extended Shaft Generator					
Air Cleaner Wrapper					
PARTS NOT FURNISHED BY OWNER					
Exhaust Heat Shields					
Mounting Plate					

Dated 11/20/84

Revised _____

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SPECIAL PARTS LIST FOR MODEL 4.0 BFA - 50R SPEC 2701AC
FOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO.
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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MANUFACTURED FOR: TIME MANUFACTURING

RV Style Air Cleaner (Plastic)
Gasoline Fuel System
Extended Shaft Generator
Two-Step Battery Charger
Air Cleaner Wrapper
Valve Stem Oil Seals Intake

Parts Not Furnished by Owner

Exhaust Heat Shields

Dated 11/20/84

Revised

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SPECIAL PARTS LIST FOR MODEL 4.0 BFA-5DR

SPEC 27036C

FOR STANDARD PARTS REFER TO CATALOG 965-0262

KEY NO.

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 611-1170-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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MANUFACTURED FOR: GEN CABLE

RV Style Air Cleaner (plastic)
Gasoline Fuel System
Valve Stem Oil Seals-Intake
Extended Shaft Generator
Control With Key Operated Ignition Switch
Two-Step Battery Charger
Air Cleaner Wrapper
Spark Arrestor Muffler

Parts Not Furnished By Onan

Exhaust Heat Shields

Dated 11/26/84

Revised

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SPECIAL PARTS LIST FOR MODEL 4.0 BFA-3CR SPEC 27318C
FOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO. 1
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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RV Style Air Cleaner(plastic)
Gasoline Fuel System
Left Vacu Flo Exhaust (270°)
Valve Stem Oil Seals-Intake

Oated 11/20/84

Revised _____

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SPECIAL PARTS LIST FOR MODEL 4.0 BPA-5DR SPEG 27696C
FOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO.
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 611-1142-04

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
MANUFACTURED FOR: PACIFIC BELL					
RV Style Air Cleaner (Plastic)					
Gasoline Fuel System					
Exhaust Manifold, Left Hand Down					
Extended Shaft Generator					
Valve Stem Oil Seals-Intake					
Two-Step Battery Charger					
Air Cleaner Wrapper					
Parts Not Furnished By Onan					
Exhaust Heat Shields					
Dated <u>11/27/84</u>		Revised			Page <u>1</u> of <u>1</u>

SPECIAL PARTS LIST FOR MODEL 4.0 BEA-3CR SPEC 28530C
FOR STANDARD PARTS REFER TO CATALOG 965-0262 KEY NO.
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. 611-1171-03

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		RV Style Air Cleaner (Plastic)			
		Gasoline Fuel System			
		Two-Step Battery Charger			
338-1852	1	Harness, Wiring - 4 Wire			
323-1088	3	Connector, Wire Nut			
152-0184	1	Spacer, Heat Shield Mounting			